

ASI

AIR & SPACE  
INSTITUTE





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# ABOUT THE ASI MISSION

## World class training for the air and space industry

ASI (Newark) is an international centre of excellence to train people to enter the air and space industry.

Our training programmes are structured with clear progression routes into the workplace, starting from Level 2 and advancing through to degree level. Along the way, there are strategic 'jump-off' gateways that provide direct entry points into various aviation roles. This ensures that our students have the flexibility and support to enter the workforce at different stages of their education, depending on their career aspirations and readiness.

The Institute proudly operates in partnership with industry giants such as the RAF, aiming to fill critical job roles for pilots, engineers, and ground crew. These roles span across airlines, the military, airports, and logistics companies both within the UK and internationally. Our close collaboration with these industry leaders ensures that our training is not only relevant but also highly sought after in the job market.

For the first time, our education and training programmes have been co-designed with direct input from the air and space industry. This collaboration has allowed us to use job roles as the blueprint for our qualifications, ensuring that our graduates are well-prepared for the industry's demands.

Our education and training are delivered by industry experts who bring years of flying and aircraft engineering experience to the table. Their extensive knowledge and hands-on experience in the air and space sector provide our students with invaluable insights and a practical understanding of their chosen fields. This expertise ensures that our graduates are not only academically equipped but also possess the practical skills and experience needed to excel in their careers.

We have expanded our STEM (Science, Technology, Engineering, and Mathematics) programmes, featuring new and exciting pathways, including Software Engineering and A Levels in Physics, Chemistry, and Maths. These additions are designed to create highly specialised individuals who are primed to fill high-demand careers, particularly in the rapidly evolving fields of aviation and aerospace.

FOR THE FIRST TIME EDUCATION AND TRAINING PROGRAMMES HAVE BEEN CO-DESIGNED BY THE AIR AND SPACE INDUSTRY USING THE JOB ROLES AS THE BLUEPRINT FOR THE QUALIFICATIONS.





# OUR INDUSTRY SUPPORTERS

At the Air and Space Institute, our mission is to deliver technology-focused education that closely aligns with industry needs, seamlessly integrating academic learning with practical insights.

Our strategic partnerships with both national and international aviation companies are instrumental in enhancing the learning experience for our students. These alliances provide industry-driven education, granting students access to cutting-edge industry knowledge and opportunities.

Additionally, we are dedicated to supporting students throughout their studies, opening potential routes for employment or apprenticeship training, ensuring they are well-prepared for their future careers.



## Royal Air Force Careers

Join the Royal Air Force and you will get much more than just a job – you'll have opportunities that no other employer can hope to match. From worldwide travels to lifelong friendships, life in the RAF is a unique experience.

The RAF offers a wide range of careers that ASI can prepare you for, including Pilot, AeroSystems Engineer, Aircraft Technician and Aircrew.





# PATHWAYS OVERVIEW

## What are my prospects in the industry?

Our students, who successfully progress through our training programmes, have the opportunity to enter an exciting career in the UK and around the world.

'Long-term demand for newly qualified aviation personnel remains strong, as 649,000 new pilots, 690,000 new maintenance technicians and 938,000 new cabin crew members will be needed to fly and maintain the global commercial fleet over the next 20 years.' – Boeing Pilot and Technician Outlook 2023-2042.

And because our students have been through ASI training and spent a significant amount of time with major employers, students may be at the front of the queue for employment.

## RAF prospects

**PAY & BENEFITS**  
The RAF typically offers bonuses and benefits ranging from subsidised living to gym memberships and discounts.

**CAREER PROGRESSION**  
There are plenty of opportunities for development throughout a career in the RAF.

**TRAINING AND DEVELOPMENT**  
We train everyone to the highest standards in order to gain invaluable skills and qualifications.



## Industry forecasts job roles

Number of Pilots Globally +  
**763,000**  
Jan. 2022 – 2029

Number of Engineers & Technicians Globally +  
**739,000**  
Jan. 2022 – 2029

Number of Ground & Cabin Crew Globally +  
**903,000**  
Jan. 2022 – 2029

## Sponsorship & Apprenticeships

Our industry supporters may hire our graduates as apprentices and full time employees.

This means students are uniquely placed to gain access to our fantastic network of employers through the unique enrichment opportunities available as part of our programmes.





# OUR PATHWAYS

There are a number of training pathways to choose from:

## Aircraft Engineer

Leading to options including aircraft line mechanic, aircraft technician, design engineer, licensed engineer, aerodynamics engineer and propulsion engineer

## Pilot

Leading to options including commercial, private, helicopter, RPAS as well as other aviation-related fields

## Ground

Leading to aviation ground roles including aircraft dispatcher, air traffic controller, baggage handler and ramp agent, air and space operations specialist, mover (logistics), communications infrastructure technician

## Software Engineer

Leading to software engineering roles including simulation engineer, systems engineer, technical support engineer, software architect, avionics technician, cyberspace communications specialist

## Space

Leading to space roles including satellite technician, spacecraft technician, launch vehicle technician, mission planner, communication engineer, cyberspace communications specialist

## Travel & Cabin Crew

Leading to options including cabin crew, travel agent, tour guide, aviation security officer, airport operations officer, customer service operative, air & ground steward





# AIRBUS ACT FOR ACADEMY



Airbus has signed its first agreement in the United Kingdom for its maintenance training solution 'Airbus Competence Training (ACT) for Academy', with Air & Space Institute Newark.

The agreement demonstrates the role that Airbus, as a leading aircraft manufacturer, is playing in ensuring closer links between the academic world and the aviation industry.

'ACT for Academy' is a maintenance training software solution from Airbus Training Services that introduces students to the latest Airbus aircraft technology and maintenance procedures, in a classroom environment. The solution helps to prepare young aerospace students for a career in the aviation industry, equipping them with the necessary skills.

'ACT for Academy', which complements the training currently available in the curricula of ASI Newark programmes, is an operationally oriented, scenario-based tool focused on a 'learning by doing' approach. It includes:

3D virtual Airbus aircraft, including virtual cockpit, virtual engines and a walk-around trainer;

Scenario-driven exercises to perform typical aircraft systems' maintenance tasks;

General familiarisation on Airbus aircraft courseware to present and explain the aircraft and its systems.

By working on real case scenarios, students not only gain first-hand knowledge and expertise, they also become more 'operational ready', hence more attractive for future employers.

With the UK forecast to see the highest rate of growth in the aviation sector, 'ACT for Academy' will no doubt be a key component in the training of the next generation of aviation professionals.



# STATE OF THE ART FACILITIES

In April 2024, the Air and Space Institute (ASI) in Newark officially opened its doors to students. The £15.4m state-of-the-art facility is now home to all our ASI pathways.

The facility, situated in the heart of Newark adjacent to the Newark and Sherwood District Council offices, stands as a testament to collaboration and vision. The Towns Fund project, born from a desire to enhance educational and employment prospects, has transformed Newark into a hub of innovation and aspiration.

ASI boasts cutting-edge infrastructure designed to simulate real-world scenarios. From an Airbus A320 Neo for hands-on training to state-of-the-art ALSIM flight simulators, Pennant hydraulic systems trainers, and robotic arms, every aspect of the facility is geared towards empowering students with practical skills and knowledge.





# FLYING TRAINING AT ASI

## Take Flight at ASI

As a dedicated partner, local businessman Stewart Davies will help fund Private Pilot Licence (PPL) certifications for Further Education students at ASI up to their first solo flight. This remarkable and generous gesture means that students will have financial help and the opportunity to strive to achieve their PPL Solo flight without the financial burden associated with private pilot training. With this new reimbursement scheme of £1,000 per student\* this gives students more flight time to practice their skills and secure their licence!

\*Funds will be awarded to a student when they have committed to their PPL training and secured their solo wings.



Read more about this partnership

Our Further and Higher Education programmes provide an opportunity for students to gain their UK Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL), alongside their academic studies; the balance of practical and theoretical skill is highly sought-after by global aviation industry employers.

Beginning with their placement at a local CAA-approved Declared Training Organisation (DTO), we support students throughout the entire flying training process. Our own flying instructors and subject matter experts (SMEs) are by their side, offering direction and guidance, at all stages of their journey.... Solo flight often happens quicker than you might think!

Further information regarding the PPL and LAPL courses can be found on our website.



Find out more



# STUDENT JOURNEY: FROM MATRICULATION TO GRADUATION

## Matriculation

All Further Education students will begin their aviation journey with ASI by matriculating at the prestigious International Bomber Command Centre.

Ross Tarnowski, Assistant Principal at the Lincoln College group, leading the Air & Space Institute and Engineering, said: "This event serves as a powerful symbol of our unwavering commitment to shaping not only their academic path but also their character. It's the moment where we launch our students into a future filled with promise, celebrating their potential and the immense support they receive at this exciting starting point of their educational voyage."

Find out more



## Graduation

All Further Education pathway students who have completed their two-year course will graduate at RAF Cranwell's Main Auditorium, Whittle Hall.

Graduating from the Air and Space programmes represents the culmination of hard work and dedication, marking the transition from the academic environment to employment. It is a significant milestone as they embark on their impactful careers and begin applying their knowledge and skills in real-world situations.

During the ceremony we recognise students who have progressed and performed well during their studies at ASI by presenting them with awards.

All Higher Education pathway students, as part of the University Centre, will graduate at Lincoln Cathedral.

Find out more





# FURTHER EDUCATION PATHWAYS





# Further Education Courses

Our Further Education pathway provides Level 2 and Level 3 technical qualifications for prospective pilots, air and space engineers and ground crew.

The specialist Level 3 qualifications are broadly equivalent to 2-3 A Levels and provide enough UCAS points to progress onto our ASI (Newark) Higher Education programmes. These courses have been developed with Nottingham Trent University (NTU) to provide Level 6 top-up degrees upon completion of your chosen HNC and HND as part of ASI Newark. Learn more about our Higher Education degree courses on page 35.

All of our Level 2 and 3 enriching qualifications have been designed in partnership with aviation industry experts and they have been reverse-engineered from specific job roles. This means all of the units within our courses give you the exact knowledge, skills and competencies to be effective in these job roles.

## Common curriculum for all pathways

For the first part of Year 1, students on all Level 3 pathways will study a common curriculum designed to familiarise learners with the aviation industry as a whole.

Employers and industry experts have told us that they need staff that understand and appreciate the knowledge skills and competencies of a range of job roles across aviation.

This level of broad understanding will make our graduates more effective in their careers when they progress.

All ASI Newark students will also participate in the National Citizen Service (NCS).

Designed especially for 16 and 17-year-olds, the NCS experience will give you a clearer idea of what you want from your future.

It is designed to unite and empower young people, building your confidence so you can go out there and achieve your dreams, no matter where you're from or what your background is.

You'll spend a week in the autumn mixing with a new crowd and taking on fresh challenges together. Before you know it, you'll be rooting for each other, as you all tackle your own little hurdles.

Common Curriculum +

Introduction to Aviation	Aviation Operations
Airline Operation Structure	Aircraft Manoeuvring
Aircraft Security	Health and Safety
Applied Aviation Maths	Aircraft Inspection Procedures
Self-Identity (Confidence) Self-development and Awareness	Aviation Environmental Sustainability
Applied Aviation physics	Line and Base environment
Radio Telephony	Air Law
Air Traffic Control overview	Aircraft Engine running Procedures
Trouble Shooting/Problem Solving Techniques	Aviation Career Plan

National Citizen Service +

Communication/Body Language	Leadership and Teamwork
Situational Awareness	Problem Solving and Decision Making
Monitoring and Cross Checking	Task Sharing
Dealing with pressure	Assessing Problems
Leadership and management	

After completing the Common Curriculum our students are streamed into their pathways for the rest of their time at ASI Newark.





# PILOT & AVIATION OPERATIONS PATHWAY

The Pilot Pathway will focus on the theoretical knowledge required for a career as a pilot in commercial or military aviation.

Students will gain a broad understanding of aviation by studying a Level 3 Extended Diploma in Aviation Operations, including; the UK aviation industry, health & safety, security, inter-relationships, aviation geography, airline and airport economics and the environmental impacts of aviation.

Throughout the course, Students will improve their use and understanding of English., mathematics and physics as applied within aviation. Students will develop the knowledge and confidence to progress to acquire the skills to become commercial or military pilots.

## PROGRESSION

After students have graduated they can progress onto the ASI Newark Higher Education programmes which include;

**Level 4 HNC International Travel and Tourism Management**

**Level 5 HND International Travel and Tourism Management (Aviation)**

**Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)\*\***



# AIRCRAFT ENGINEERING PATHWAY

The Level 3 Diploma in Aircraft Maintenance course will be focusing on aircraft engineering theory and practical training including subjects such as theory of flight, line and base aircraft engineering, CAA Part 145 maintenance procedures, CAA Part 66 Procedures, aircraft jet engine ground running procedures, human factors within aviation, civil legislation in aviation, aviation mathematics and science for technicians, fundamentals of electronics and avionics systems.

It will also develop your practical hand skills using specialist aircraft tooling and virtual reality (VR) simulation to carry out maintenance on aircraft systems and structures.

The course is designed to enable the student to gain the required theory qualifications and practical experience to become an Aircraft Fitter/Technician assisting in carrying out routine maintenance on Jet aircraft and leading to a CAA Part 66 A1 Aircraft maintenance licence\*

## PROGRESSION

Other options would include progression onto the ASI Newark Higher Education programmes which include;

**Level 4 HNC Aeronautical Engineering for England (HTQ)**

**Level 5 HND Aeronautical Engineering for England (HTQ)**

**Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)\*\***



# SPACE AND ENGINEERING PATHWAY

This exciting one year Level 2 programme is for learners who are intending to work in the aviation, aerospace and engineering sectors.

You will study specific 'space' units which could include Applications of Space Technology, Exploring Space, The Moon Our Nearest Neighbour, Planetary Landscapes and Life on Mars.

In addition, several engineering units will prepare you for your next steps and these may include Working in Engineering, Principles of Manufacturing Technology and Maintenance of Mechanical Devices and Equipment.

There will also be a number of enrichment opportunities where you will partake in exciting trips and visits as well as hear from exciting guest speakers from the industry.

## Entry Requirements:

You will need to have a minimum of 3 GCSEs, including English Language and/or Mathematics at Grade 4 or above (an approved Science-based subject is preferable for progression).

On completion of Level 2, you must have attained GCSE Grade 4 or higher in both Maths and English Language to progress to an ASI L3 programme.

Ideally, you will have already achieved this prior to commencing your studies, however, applications will be considered from those who have achieved. GCSE Grade 4 in either Maths or English Language and are willing to study either English Language or Maths alongside your Level 2 curriculum.

You will be required to attend a Welcome Day event (this includes a practical activity and interview) and provide a reference (from an employer or recent school/college report).



\*Merit or higher required in all C&G Modules and 3 years experience required as per CAA Part 66A.30 Basic experience requirements to gain CAA A1 Part 66 AML.  
\*\*Subject to validation



# TRAVEL & TOURISM

Travel and Tourism at ASI offers two programmes across Level 2 and 3 designed to prepare students for a career in the aviation industry. The aviation industry is a rapidly growing and exciting sector, and there are many different job opportunities available.

The course will cover a wide range of topics related to aviation and travel and tourism, including: the aviation industry, its structure, history and future, different types of airlines and aircraft, airport operations, customer service in aviation, selling and promoting travel products, travel and tourism marketing.

The course will also cover specific topics related to aviation travel and tourism, such as: air fares and ticketing, baggage handling, passenger safety and security, travel documentation and foreign exchange.

**PROGRESSION**  
After students have graduated they can progress onto the ASI Newark Higher Education programmes which include;

**Level 4 HNC International Travel and Tourism Management**

**Level 5 HND International Travel and Tourism Management (Aviation)**

**Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)\***





ASI Newark is under development. All course information is subject to validation and change.

# SOFTWARE ENGINEER

The Level 3 Software Engineering Programme is designed to prepare students for a career in the aviation, aerospace, space and defence sectors.

The course will cover a wide range of topics in software engineering, including:

- Software development methodologies
- Programming languages
- Software design and testing
- Software engineering principles and practices
- Software security and safety


Graduates from this course will be in high demand from employers in the aviation, aerospace, space and defence sectors. They can expect to work on a variety of projects, such as developing software for aircraft, spacecraft, and satellites.

**PROGRESSION**  
Other options would include progression onto the ASI Newark Higher Education programmes which include;

**Level 4 HNC Aeronautical Engineering for England (HTQ)**

**Level 5 HND Aeronautical Engineering for England (HTQ)**

**Level 6 Top-Up degree delivered by Nottingham Trent University (NTU)\***





\*Subject to validation

# A LEVELS

**Air and Space Institute A Levels**  
This innovative and thrilling academic pathway presents students with the opportunity to study A Levels in Maths, Law and Business Studies complemented by ASI's enriching aviation talks and visits.

These experiences are specifically designed to equip students for a successful career in the dynamic aerospace and space sectors. With these industries experiencing rapid growth, there are numerous exciting and challenging prospects awaiting graduates.

The aerospace and space sectors are expanding at an astounding pace, providing exceptional career opportunities for graduates. Those who complete this course can anticipate earning competitive salaries and engaging with cutting-edge technologies.

**MATHS**  
**LAW**  
**BUSINESS STUDIES**





# CIVIL ENRICHMENT ACTIVITIES

The curriculum for the ASI Civil is packed with enrichment activities ranging from expert guest speakers from our industry partners, to exciting visits to industry workplaces, along with sporting, leadership and team skills activities. Below is just a flavour of the programme.

COMMERCIAL AIRLINE  
PILOT GUEST SPEAKER  
AND PRESENTATION

AIR TRAINING  
EXPERIENCE FLIGHTS

MATRICULATION

INDUSTRY PARTNER  
VISITS AND TALKS

NEWARK AIR  
MUSEUM VISIT

NATIONAL SPACE  
CENTRE VISIT

LINCS & NOTTS  
AIR AMBULANCE

EAST MIDLANDS  
AIRPORT VISIT

NCS - BESPOKE  
PROGRAMME AND  
ACTIVITY WEEKEND

ROLLS ROYCE ENGINE/  
HERITAGE CENTRE  
VISIT

HUMBERSIDE AIRPORT  
VISIT





# ASI MILITARY & DEFENCE

ASI Military & Defence provides employer-led, career-focused education and technical training for 16 to 19-year-olds. Our employer supporters work closely with us to provide this unique and innovative model, which is designed to create secure career paths in the RAF, aerospace, and defence industries.

We work in partnership with the Royal Air Force and a range of top aerospace industry firms to provide this unique training model. The UK's first Air & Defence College, created by Lincoln College in close partnership with the RAF and the wider aerospace industry, was officially opened at Lincoln College by Air Vice-Marshal Andrew Turner in September 2016.

In September 2022, we rebranded to form part of ASI, while still delivering the same exceptional military and defence content. Our carefully designed study programmes, shaped by our industry partners, offer a unique blend of academic education and technical training, with an additional focus on physical training, leadership, communication, and team building. To support this focus on physical fitness, we have established a local partnership with the YMCA in Newark, providing our students with access to top-tier fitness facilities and programmes.

Our students engage in industry-set projects, co-designed by employers, equipping them to enter their chosen careers ahead of the game and ready to progress. Students spend a significant proportion of time experiencing industry environments first-hand through an extensive programme of work experience. Industry experts join tutors at the College to pass on their knowledge and expertise.

Core academic study areas like Maths, English, and Science are contextualised to the specialism of the ASI Military & Defence, with digital skills development being a major priority.

## OUR ASI MILITARY AND DEFENCE OFFERS:

### UNIQUE

Access to RAF and aerospace working environments and expertise

### THE BEST

Professional technical training in the region

### GUARANTEED

Places on RAF Basic Recruit Training for graduates who will be well equipped to pass first time

### EXCITING

Adventure training and a residential visit developed by the RAF

### CAREER READY

Students with the technical qualifications, confidence and leadership skills to succeed

### ONCE IN A LIFETIME

Experiences for top performing students with aircraft flights

ASI Newark is under development. All course information is subject to validation and change.



Specialisms:

- Engineering
- Cyberspace communications specialist
- Air & space operations

Our ASI Military & Defence programme is an amazing opportunity to pursue a career with the RAF, or the wider aerospace industry. It enables students to complete their core academic studies, alongside full time technical training, creating a clear pathway to an exciting, rewarding future.

The RAF, and our industry support partners, have helped shape the ASI Military & Defence curriculum with a blend of technical skills, a personal development programme and sector specific job-ready skills.

That means graduates can leave the College with the right qualifications and the fitness levels, confidence, leadership and communication skills to succeed.

Graduates are guaranteed a place on RAF Basic Recruit Training (subject to RAF entry criteria) and should be well equipped to pass first time. If students decide not to enter the RAF, they can progress to employment, an apprenticeship or further study for a career in the aerospace industry.

POSSIBLE CAREER OPTIONS +

- Mechanical Engineering Technician
- Avionics Engineering Technician
- General Engineering Technician
- Vehicle Engineering Technician
- Cyberspace Communication Specialist
- Avionics Technician





# MILITARY ENRICHMENT ACTIVITIES

The curriculum for the ASI Military & Defence is packed with enrichment activities ranging from expert guest speakers from our industry partners, to exciting visits to RAF bases and industry workplaces, along with residential visits and adventure training. Below is just a flavour of the programme.

WHOLE CAMP VISIT  
RAF CRANWELL  
INITIAL FITNESS  
ASSESSMENT

NCS - ACTIVITY  
WEEKEND

STATION VISIT -  
RAF COSFORD

STATION VISIT -  
RAF WITTERING

STEM - ACTIVITY  
STATION VISIT -  
RAF CRANWELL

MENTOR VISITS  
RESIDENTIAL -  
ADVENTURE TRAINING  
BRECON BEACONS

FURTHER  
EDUCATION  
GRADUATION

STATION VISIT -  
RAF HALTON

ARMED FORCES  
CAREERS OFFICE  
ADVISING &  
DEFENCE APTITUDE  
ASSESSMENT

VISIT -  
INDUSTRY  
PARTNERS

STATION VISIT -  
RAF CONINGSBY

GRADUATE AT  
PRESTIGIOUS RAF  
CRANWELL





# STUDENT SUCCESS STORIES

The Air and Space Institute is where dreams take flight. The sky is just the beginning! Discover the endless possibilities at ASI and get inspired through our student case studies.

Our Further Education students are embarking on exciting journeys towards their dream careers – ASI is the launching pad to unlock their limitless potential.

## KIAN DEIGHTON

Kian has laid the foundations of an exciting career at major airline TUI with his Cabin Crew role, following the completion of the Level 3 Pilot & Aviation Operations course at ASI.

Kian had access to ASI's state-of-the-art flight simulator, allowing him to further refine his skills and knowledge in a realistic and controlled environment preparing him for his journey beyond college. Now travelling the world, Kian has already flown across Europe several times in his first few months at the company.

**"During my training at TUI, all the procedures and aviation-related terminology that you need to know – I had prior knowledge of from ASI – it has proven useful and put me that step ahead of people."**

**"Other people should join the ASI course. If you are interested in aviation – it is the place to be! It is where you'll start your career off."**

Kian Deighton

## GRACE HICKSON

Following her GCSEs, Grace enrolled at the ASI to study Engineering, specialising in aircraft maintenance. During her time at ASI, Grace gained a solid foundation in aerospace engineering principles and hands-on maintenance skills. ASI's strong industry partnerships, engaging trips, and guest speakers were instrumental in connecting her to opportunities in the aerospace sector. In September 2024, Grace will begin an advanced engineering practical apprenticeship (fitter) at Rolls Royce Derby. This apprenticeship is a significant career step, offering the chance to work with a prestigious engineering company known for excellence in aerospace.

## POPPY QURESHI

Poppy embarked on her journey at ASI with a clear goal in mind: to become a pilot. Joining the Pilot pathway in 2021, Poppy demonstrated a passion for aviation and a commitment to achieving her dreams. Her dedication and hard work have recently culminated in her passing the PPL (A) (Private Pilot Licence – Aeroplane) skills test, making her a qualified private pilot. Poppy graduated from ASI in 2023 and is now setting her sights on becoming a commercial pilot.

## EMILY EVANS

Emily Evans on the Pilot & Aviation Operations Civil Pathway recently graduated at RAF Cranwell and has secured an exciting Search and Rescue scholarship at Bristow.

Bristow Group is a global leader in vertical flight solutions, providing helicopter transportation and search and rescue services to civil and government organisations worldwide.

At ASI we prepare students with interview guidance and CV support to enhance your applications and further your career beyond education

**"ASI helped me realise that my dream wasn't beyond my reach and that with unwavering determination and the right support, my dream could become reality. And that it did."**

**"When I first set out on the path to becoming a search and rescue pilot, I faced various challenges, including the need to acquire the necessary skills and expertise. ASI stepped in and provided me with the training and education that formed the bedrock of my journey."**

Emily Evans

## KRYSTIAN SKRZYPCZAC

Krystian started his journey with us on the Level 3 Pilot & Aviation Operations Pathway. At the start of his second year at ASI, Krystian aimed to secure a job within Commercial Aviation. Over the summer of 2022, Krystian completed work experience at East Midlands Airport to help enhance his CV and provide an insight into airport operations and roles.

Since graduating Krystian has successfully landed a position as a dispatcher with Swissport at East Midlands airport (EMA) – they provide ground services and efficiently manage an air cargo warehouse at EMA. Krystian and his classmate Lexi also won the Quiet Tiger Aviation Award.

**"There are a lot of opportunities to be had and a lot of enrichment trips you wouldn't get studying an Aviation Operations course anywhere else."**

Krystian Skrzypczac





# HIGHER EDUCATION PATHWAYS

## ASCEND TO THE NEXT LEVEL AT ASI

Our Higher Education pathways provide Level 4 (HNC) and Level 5 (HND) technical qualifications for potential careers in the aviation, aerospace and space sectors.

Train to be a pilot, an aviation engineer or study leadership and management roles for ground and airport operations with ASI Higher Education (HE) Programmes. Our HE students are based in our aviation classrooms and facilities that keep teaching and learning apace with cutting-edge innovation and discovery including the use of virtual reality technologies and a flight simulator.

As part of our Higher Education programmes, our students can also choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL). More details can be found on page 14.

We have a strong focus on employability, and our training partners and professional connections give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport – along with other regional aviation partners – means students are perfectly placed for networking, seasonal jobs and work placements that are available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching can allow students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

These programmes are delivered in our state-of-the-art £15.4m ASI HQ. This industry-standard facility is equipped with the latest aviation industry technology.

Our exciting Higher Education pathways include:

### ASI ENGINEER PATHWAY

- HNC Aeronautical Engineering for England (HTQ) (Full Time & Part Time)
- HND Aeronautical Engineering for England (HTQ) (Full Time & Part Time)

### FLIGHT & AVIATION MANAGEMENT PATHWAY

- HNC International Travel & Tourism Management (Full Time & Part Time)
- HND International Travel & Tourism Management (Aviation) (Full Time & Part Time)

An HNC is a Level 4 qualification which is widely recognised in its own right and is designed to provide students with the skills required for employment in a range of associated professions. On successful completion of the course, students may apply to continue at ASI to study the appropriate subsequent Level 5 HND. On successful completion of the HND course, students can top up to a full degree (Level 6) with our partner institution, Nottingham Trent University (NTU) – subject to validation.

All our programmes are offered as full time and part time options to support people already in employment and wanting to up-skill and develop their skills and knowledge in this exciting industry.

### What is a Higher Technical Qualification (HTQ)?

HTQs are technical qualifications that employers have helped develop so students can get the right training and skills they need to succeed at work.



Industry-standard facilities,  
equipped with the latest  
aviation technology.







# AERONAUTICAL ENGINEERING FOR ENGLAND (HTQ)

The HNC Aeronautical Engineering for England programme is ideal for students wishing to work within the aviation industry. Students firstly study the HNC Aeronautical Engineering and then have the option to progress to the HND Level 5 course.

Designed to help students build technical knowledge and skills, our course focuses on the underlying principles of aeronautical engineering. Students have the opportunity to develop the skills to recognise and alleviate risk, create a safe and efficient operating environment, and assess vital information. With a focus on the future, students can also build transferable skills and learn about the decision-making methods used by industry.

The Pearson BTEC Higher National Certificate (HNC) is at Level 4 (the same as the first year of a UK honours degree). It is an eight-unit qualification which involves studying four mandatory core subjects and a further four specialist subjects. The units have been selected to meet a broad range of local industry needs.

Our aeronautical engineering students are based in our aviation and engineering classrooms, workshops and emulation zone that keep teaching and learning apace with cutting-edge innovation and discovery including the use of virtual reality technologies and a flight simulator.

We have a strong focus on employability, and our training partners and professional connections can give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport, along with other regional aviation partners, means students have the opportunity for networking, seasonal jobs and work placements where available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching is designed to enable students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

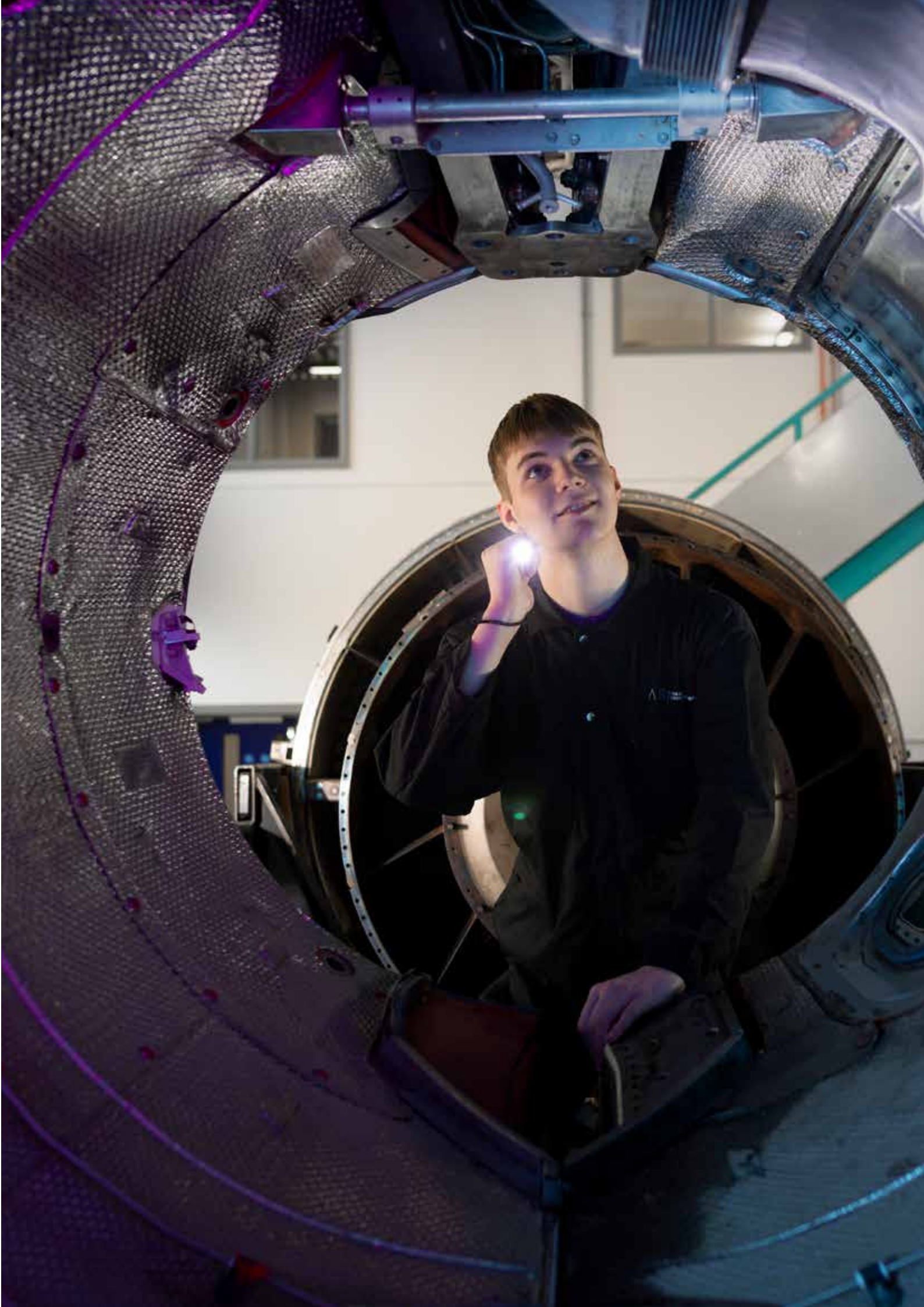
As well as receiving interesting lectures and seminars, students are also supported by personal tutors, module leaders and course leaders. In addition, guest speakers often deliver sessions for students within ASI to enrich their learning. Previously we have welcomed speakers from Jet2, British Airways, EasyJet and East Midlands Airport.

Assessments are mainly by assignment with some testing in the analytical subjects.

As part of the programme, students can choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL). More information can be found on page 14.

HNC Level 4	
Qualification	HNC Aeronautical Engineering for England (HTQ)
Duration	1 year (Full Time) 2 years (Part Time)
Typical Structure	Engineering Design Engineering Maths Engineering Science Managing a Professional Engineering Project (Pearson set) Aircraft Aerodynamics Aircraft Electrical Power and Distribution Systems Airframe Mechanical Systems/Industrial Robots Composite Materials for Aerospace Applications

HND Level 5	
Qualification	HND Aeronautical Engineering for England (HTQ)
Duration	1 year (Full Time) 2 years (Part Time)
Typical Structure	Research Project Professional Engineering Management (Pearson-set) Further Mathematics Aircraft Flight Control Systems Aircraft Propulsion Principles and Technology Avionic Systems Advanced Composite Materials for Aerospace Applications
Progression	Top-Up degree delivered by Nottingham Trent University (NTU)





# INTERNATIONAL TRAVEL AND TOURISM MANAGEMENT

The HNC International Travel and Tourism Management programme is ideal for students wishing to work within the aviation and aerospace industry – one of the world’s largest employment fields. Students firstly study the Level 4 HNC International Travel and Tourism Management and then have the option to progress to the HND Level 5 course.

The programme could lead to a fascinating and rewarding career. With high demand for air travel, career opportunities are expected to increase. Course graduates could secure roles that range from aviation management to continuing their flight training to become a commercial airline pilot.

The Pearson BTEC Higher National Certificate (HNC) is at Level 4 (the same as the first year of a UK honours degree). It is an eight-unit qualification which involves studying five mandatory core subjects and a further three specialist subjects. The units have been selected to meet a broad range of local industry needs.

We have a strong focus on employability, and our training partners and professional connections can give students the chance to immerse themselves in the industry. Our close proximity to East Midlands Airport, along with other regional aviation partners, means students have the opportunity for networking, seasonal jobs and work placements where available.

At ASI Newark, students learn from skilled lecturers who have a high level of working knowledge, based on industry experience. Their teaching is designed to enable students to gain a deep insight into the latest trends and requirements of the aerospace and aviation sector.

As well as receiving interesting lectures and seminars, students are also supported by personal tutors, module leaders and course leaders. In addition, guest speakers often deliver sessions for students within ASI to enrich their learning. Previously we have welcomed speakers from Jet2, British Airways, EasyJet and East Midlands Airport.

Assessments are mainly by assignment with some testing in the analytical subjects.

As part of the programme, students can choose to take an optional structured pilot training programme delivered by external partners at an additional cost that could lead to a Private Pilot Licence (PPL) or Light Aircraft Pilot Licence (LAPL. More details can be found on page 14.

HNC Level 4		+
Qualification	HNC International Travel and Tourism Management	
Duration	1 year (Full Time) 2 years (Part Time)	
Typical Structure	<ul style="list-style-type: none"><li>The Contemporary Travel and Tourism Industry</li><li>Managing the Customer Experience</li><li>Professional Identity and Practice</li><li>The Travel and Tourism Business Toolkit</li><li>Leadership and Management for Service Industries (Pearson-set)</li><li>Managing Aviation Services</li><li>Passenger Transport Services</li><li>Human Resource Management</li></ul>	
HND Level 5		+
Qualification	HND International Travel and Tourism Management (Aviation)	
Duration	1 year (Full Time) 2 years (Part Time)	
Typical Structure	<ul style="list-style-type: none"><li>Research Project (Pearson-set)</li><li>Tourism Consumer Behaviour and Insight</li><li>Airline Operations Management</li><li>Airport Operations Management</li><li>Strategic Planning for Air Transport</li><li>Organisational Behaviour</li><li>Strategic Human Resource Management</li></ul>	





# OUR CAMPUSES

IN NEWARK WE HAVE TWO CAMPUSES:  
NEWARK COLLEGE AND THE  
AIR AND SPACE INSTITUTE (ASI)

## Entertainment

- 1 Northgate Retail Park
- 2 The Maltings
- 6 Newark Wharf
- 4 Newark Castle
- 5 Town Hall Museum & Art Gallery
- 6 Palace Theatre
- 7 National Civil War Centre
- 8 St Mary's Remembrance Gardens
- 9 UK Superbowl
- 10 Odeon Cinema
- 11 Newark Library
- 12 Beaumond Gardens
- 13 Sherwood Avenue Park
- 14 Friary Park

## Coffee Shops

- 15 The Coffee Chain
- 16 Stray's Coffee
- 17 Starbucks
- 18 Costa Coffee

## Places to Eat

- 19 Pizza Express
- 20 Papa Johns Pizza
- 21 Letsxcape Café
- 22 The Bean & Vine
- 23 Tambo Lounge
- 24 Newark Royal Market
- 25 Thyme Out
- 26 PJ's American Diner
- 27 Pastability
- 28 Greggs

## Shops

- 29 Morrisons
- 30 ASDA
- 31 High Street Shops
- 32 St Marks Place Shopping Centre

## Newark College

- 33 Woodland Walk
- 34 NG24 Café

## Key:

- P Parking
- 🚉 Train Station
- 🚌 Bus Station
- 👮 Police Station
- 🍏 Foodbank

## Did you know?

The town offers a full range of facilities, affordable housing and a traditional community atmosphere. It has a vibrant market four days a week and is host to a growing number of events that celebrate music including jazz and folk festivals.





# COME AND SEE US

## OPEN DAYS 24|25

**Don't miss your chance, book your place today!**

Attend our open days to learn about ASI, meet lecturers, and make informed choices.

Our open days are open to all applicants and are suitable for School Leavers and people of any age.

- **SATURDAY 2 NOVEMBER** 11.00–1.00pm
- **TUESDAY 21 JANUARY** 5.00–7.00pm
- **THURSDAY 20 MARCH** 5.00–7.00pm



BOOK YOUR TICKETS  
[asi-newark.co.uk](https://asi-newark.co.uk)





[asi-newark.co.uk](http://asi-newark.co.uk)

All information in this guide is correct at the time of printing, for the latest information please visit our website.

Updated Dec 2024.

Follow us for the latest student stories and events

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