# ESPA

## Robotics and Automation Internship (NORSD2602)

**Apply here**

### Start date
Early 2018

### Duration
6 months

### Languages
Good spoken and written English levels are required (B2 onwards)

### Location
Colchester, England

Colchester in Essex is Britain's oldest recorded town and was one of the most important settlements in Roman Britain. Its rich history dates back over 2000 years. Nowadays, 21st Century Colchester is a thriving, modern town with first class visitor attractions, including Colchester Zoo and Colchester Castle, as well as fantastic places to eat, drink and shop. Close to East Anglia with picturesque villages and not far from the coast, you will never be short of things to do here.

### Are you eligible?
Are you a registered student?
Or
Are you eligible to participate in the Erasmus+ programme?

### Benefits
See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

## Role
This is an exciting opportunity for a Software Engineering student to gain practical experience in development and modification of existing proprietary software programs. With specific emphasis in the area of factory automation and machine control, you will be mentored throughout to achieve the set objectives. This experience is a great chance to take your programming skills to the next level and will be an invaluable addition to your CV and boost to your career aspirations.

## Tasks
- Develop and maintain machine control software for company tools
- Develop software interfaces between company tools and factory hosts using industry standards to give high reliability and excellent user experience
- Transfer code into volume manufacture
- Support and debug field issues
- Any other reasonable duties.

## Desired Skills
Essential:
- Educated to degree level or equivalent in an appropriate discipline
- Software control of machines and robotic systems
- C++ and C# development in a multi-threaded environment
- Software design and architecture experience
- Use of appropriate code management and issue tracking tools
- Understanding of the physics of X-Ray inspection and materials testing
- Customer facing experience.

Good to have:
- Experience of tool to factory host communication
- X-ray systems control
- Good numerical skills
- Visual Studio 2010 or later
- Software development on 64-bit Windows 7 platform
- Subversion.

## The Host Company
The host company is a market leader in the development and manufacture of Bondtester and X-ray Inspection Systems for destructive and non-destructive mechanical testing and inspection of electronic components. They have developed an excellent suite of award-winning X-ray inspection equipment targeted at both the Semiconductor and PCBA markets. With Sales of $1.8 Billion in 2016 and over 6,000 employees worldwide, this company is looking to build on its success.