

Role Profile: Graduate Software Engineer (2023)

A bit about us...

Amiosec is an exciting and growing UK technology company with innovation, agility, and state of the art technology at its core. We work in partnerships with UK government customers and commercial providers to deliver research, technology, products, and services in the communications security sector.

Amiosec is currently seeking talented graduates to join our growing engineering team in September 2023, working on next generation communication and cyber security technologies.

You will be an integral part of small, multi-disciplined teams involved in the design, development, and evaluation of a range of secure communication products and technologies within Amiosec's portfolio. In addition, you will also have opportunities to work within Research and Development projects to understand and investigate cutting edge technologies which allow Amiosec to stay ahead of the curve.

Amiosec's Graduate Scheme will provide you with structure and support, including a mentor and line manager, to allow you to hone the skills you already have and provide tailored opportunities and training to upskill you over a 12-month period.

Work life balance is important, and we offer several options to support our engineers. We have an optional 9-day fortnight scheme, which gives the opportunity to compress a fortnights hours over 9 days to allow every other Friday to be taken off. We have a hybrid working policy, where we ask for a split of 3 days onsite and 2 days remote (this is subject to individual project needs).

NOTE: - Due to the nature of our work, all candidates will be required to obtain and maintain an appropriate UK security clearance.

Typical Activities

Subject Area	Activities
Development	<ul style="list-style-type: none"> Design, development, and implementation of software primarily in C and Python, but also in other languages Integration of developed software with other system components including firmware and hardware
Documentation	<ul style="list-style-type: none"> Documentation of design specifications and implementation decisions, with guidance Documentation through software development tasks, following best practices
Lifecycle	<ul style="list-style-type: none"> Obtaining an appreciation and some experience in all areas of the product lifecycle, from requirements through to testing

Technology Evaluation and Research	<ul style="list-style-type: none"> Investigation of emerging frameworks, libraries, build tools, technologies
Team Activities	<ul style="list-style-type: none"> Using Agile methodologies and getting involved with ceremonies. Working within teams to contribute to technical solutions.
STEM outreach	<ul style="list-style-type: none"> STEM outreach is very important to Amiosec and all early careers staff will be encouraged to get involved with the creation of new activities and attending events.

Technical Competencies

Subject Area	Competency
Qualifications	<ul style="list-style-type: none"> Minimum of 2:1 degree in a relevant subject such as Engineering, Computer Science or Cyber.
Programming languages	<ul style="list-style-type: none"> We are looking for someone who is familiar with the principles of writing software and may have experience of writing software in at least one of these areas: <ul style="list-style-type: none"> Embedded programming languages which are most used in the business include: C, C++, Java or Rust Scripting languages: Python and Bash
Operating Systems	<ul style="list-style-type: none"> Required to have a good understanding of how to use Windows OS. Desirable to have experience with either Linux and/or real-time embedded microkernels/hypervisors.
Lifecycle	<ul style="list-style-type: none"> Be familiar with the high-level stages of the product lifecycle.

Core Competencies

Subject Area	Competency
Approach	<ul style="list-style-type: none"> Enthusiasm for technology and desire to understand and utilise it to develop innovative solutions Ability to quickly learn innovative technologies as needed Ability to apply a systematic and methodical approach to debugging/resolving technical issues
Working Style	<ul style="list-style-type: none"> Ability to work individually or as a member of a multi-discipline team Self-motivated Ability to capture and articulate design ideas Willingness to be flexible and embrace new technologies/techniques Good time management skills Ownership of own deliverables Tenacious problem-solving skills
Innovation	<ul style="list-style-type: none"> Ability to foster and develop innovative ideas Willingness to contribute to improvements in products and ways of working

