

Role Profile: Software Test Automation (Full or Part Time)

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, solutions, and services in the communications security sector.

Our Engineering team is expanding, and we are looking for a Software Engineer who will support our test automation activities. We provide a stimulating working environment, with an opportunity to be involved in various projects from early-stage proof-of-concepts using emerging technologies, tools, and languages right through to full lifecycle product development. We run self-managing agile teams using a mixture of Scrum and Kanban techniques so that engineers get a great sense of ownership of their work and can directly see how their efforts contribute to the bigger picture and help our customers achieve their goals.

We actively encourage personal development and have a structured career framework based on industry standard SFIA grades. We provide training tailored to your needs and learning methods and encourage our engineers to develop their skills – both technical and non-technical alike.

Collaboration and team spirit are key – we actively seek to share knowledge and ideas. Our monthly Engineering Forum provides an ideal vehicle for sharing tips, tricks, and techniques between projects/teams. We organise regular social activities and gatherings such as coffee and cake mornings, virtual beer / wine tasting sessions and activity days – something we feel is important to support our hybrid working scheme and maintain a comfortable social atmosphere.

We are passionate and committed to growing new talent and as such run a Graduate Scheme and have an active STEM outreach program – collaborating with schools, universities, and the NCSC CyberFirst program. If you are interested, we would love you to get involved and help in these areas.

Our engineering team is key to our success as a business and this not only includes what we do, but how we do it. Like any engineering organisation we have standardised processes and ways of working, but these are owned by the engineering team, and we work to ensure that they are relevant, helpful, and as efficient as possible so that we can focus on what we are good at – the engineering. We actively encourage our engineers to contribute to improvements in our working practices and environment and try out innovative ideas with a view to rolling things out that work well for us.

Our Engineering team is multi-disciplinary, covering hardware, mechanical, software, systems, and test. Whilst software is currently the biggest discipline, the other areas continue to grow as we expand our range of capabilities and diversify our work and skills.



Software Test Automation

Our success as a business has seen our engineering team size increase through continuous and sustained growth and will expand further in the near future. We are looking for a competent Software Engineer to join the team and help to develop our test automation capability for one of our new modular embedded product platforms. This is an exciting product, as will provide a foundation supporting several new developments in the future. Candidates must have experience of documenting detailed test scripts and developing automation solutions that will improve the quality of our products.

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). In addition, this position can be either full or part time. For part time roles we are open to considering hours that work for you as a candidate.

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

Typical Activities

- Development and maintenance of high-quality test cases to be executed against software and hardware products
- Design and implementation of test automation solutions to bring speed and repeatability to test cases
- Authorship of formal test documentation
- Review and scrutinise other technical documentation (e.g., requirements documentation, design, and architecture documents)
- Participation in team planning and progress activities such as daily stand-ups, planning and design meetings
- Review and recommend enhancements for test processes and workflows across the organisation

The sections below outline typical skills and competencies that we are looking for. These are wide-ranging and represent the full cross-section of capabilities that we seek. Prospective candidates should be able to demonstrate ability in a number of the technical competencies (depending on grade/experience) and as a minimum, satisfy the core competencies as listed.

Technical Competencies

Subject Area	Competency
Experience/Skillset Essentials	<ul style="list-style-type: none"> • Ability to design and document high quality test scenarios for use in manual and automated testing • Experience using Linux as a development operating system • Experience with continuous integration platforms (e.g., Gitlab CI) • Understanding of IP/networking concepts (e.g., IP addressing, subnetting, routing, switches) • Understanding of cryptographic concepts (public/private keys, certificates) • Experience of COTS and bespoke hardware platforms • Experience testing hardware using multimeters, oscilloscopes (desirable) • Understanding of virtualisation technologies such as Docker or Firecracker (desirable)
Programming / Scripting Languages	<ul style="list-style-type: none"> • Python • Bash • C/C++ • Robot test framework • DPDK or similar packet processing software (desirable)
Documentation	<ul style="list-style-type: none"> • Ability to write clear and well-formed technical documentation, which may be customer-facing

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-disciplinary team • Self-motivated • Good time management skills • Ability to prioritise multiple tasks effectively • Tenacious problem-solving skills
Innovation	<ul style="list-style-type: none"> • Ability to foster and develop innovative ideas • Drive improvements in products and company processes