



Job Description

Internship SGIS - Secure File Sharing - (TAL-SGIS20190529-003)

Primary Location Austria-Vienna-Vienna-IAEA Headquarters

Posting Date 2019-06-12, 2:09:09 PM

Closing Date 2019-06-26, 10:59:00 PM

Duration in Months: 12

Contract Type: Interns

Duration

12 months.

Internships

The IAEA accepts a limited number of interns each year. The internships are awarded to persons studying towards a university degree or who have recently received a degree (see Internship web pages for further details).

The purpose of the programme is:

- To provide interns with the opportunity to gain practical work experience in line with their studies or interests, and expose them to the work of the IAEA and the United Nations as a whole;
- To benefit the IAEA's programmes through the assistance of qualified students specialized in various professional fields.

The duration of an internship is normally not less than three months and not more than one year.

Organizational Setting

The Department of Safeguards (SG) is the organizational hub for the implementation of IAEA safeguards. The IAEA implements nuclear verification activities for some 180 States in accordance with their safeguards agreements. The safeguards activities are undertaken within a dynamic and technically challenging environment including advanced nuclear fuel cycle facilities and complemented by the political diversity of the countries.

The Department of Safeguards consists of six Divisions: three Operations Divisions: A, B and C, for the implementation of verification activities around the world; three Technical Divisions: Division of Concepts and Planning, Division of Information Management, and Division of Technical and Scientific Services; as well as three Offices: the Office for Verification in Iran, the Office of Safeguards Analytical Services and the Office of Information and Communication Services.

The main objective of the Department is to maintain and further develop an effective and efficient verification system in order to draw independent, impartial and timely safeguards conclusions, thus providing credible assurances to the international community that States are in compliance with their safeguards obligations. The departmental operating environment is interactive, participative and dynamic with continuous inputs received from the Board of Governors, the General Conference, policy- and decision-makers, as well as counterparts in Member States and in the international development community.

The Infrastructure Section is responsible for providing secure, reliable, and dependable computing, collaboration, database and communications services to the Department of Safeguards. The Infrastructure Section cooperates with other Sections and Divisions in the Department of Safeguards to deliver IT services at a very high standard.

Main Purpose

At present, the use of shared drives creates many security and operational problems. There are many modern ways for sharing files which do not require file shares and which eliminate many of the issues associated with shared drives. The intern will be briefed on the problem statement, research the market for opportunities, and then assess those options against existing open source or customized solutions. The intern will, with the guidance and agreement of his/her tutor, pilot several options and prepare reports on the advantages and disadvantages of each. Finally, the intern will assist with the creation of the operational solution. These activities will include preparing the statements of work for any procurement activities or specifying any requirements for the chosen implementation, and technical work such as customization, coding, and scripting.

Functions / Key Results Expected

Under the guidance of the Team Lead and in collaboration with the Senior Systems and Infrastructure Architect, the intern will perform or support one or more of the following tasks:

- Survey of solution viability, requirements elicitation, and requirements documentation.
- Develop extensible proof-of-concept tools and techniques to share files with the necessary confidentiality, integrity, and availability requirements in mind.
- Provide support for the development and/or procurement of a file transfer solution including assistance with operating processes related to procurement and software development.
- Participate in on-going projects and activities of SET and the security team, as appropriate and as requested.

Knowledge, Skills and Abilities

- Discretion and Respect for Confidentiality

Qualifications and Experience

- Preferred field of studies: Computer Science or related field.
- Ability to code in programming languages such as .NET or Java and the capability to write automation tools using Python or other scripting methods.
- Good analytical and organization skills and the ability to meet deadlines.
- Able to work independently and as a team member in a multicultural environment.

Applicant Eligibility

- Candidates must be a minimum of 20 years of age and have completed at least three years of full-time studies at a university or equivalent institution towards the completion of a first degree.
- Candidates may apply up to one year after the completion of a bachelor's, master's or doctorate degree.
- Candidates must not have previously participated in the IAEA's internship programme.
- Excellent written and spoken English essential.
- Candidates must attach two signed letters of recommendation to their application.