



## Job Description

## Internship SGIS - Operations Automation - (TAL-SGIS20190607-002)

Primary Location Austria-Vienna-Vienna-IAEA Headquarters

Posting Date 2019-06-12, 2:06:04 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

Currently, the Department receives numerous threat intelligence feeds and works with external organizations to receive indicators of potential compromise. The intern will be briefed on the data sources and the existing platforms for managing events. The intern will research and propose methods for automatically ingesting the indicators of compromise into appropriate tools, and automatically preventing or detecting adverse conditions. The intern will then implement use cases as defined by the Hiring Manager/Tutor. The intern will also look for opportunities to correlate events from numerous sources to trigger alerts and should participate in internal workshops to refine event collection and define further sources and automation opportunities. The intern will also conduct a proof of concept and feasibility study for a collaborative security event management platform and provide scripts and utilities to automate workflows related to event management within those platforms.

### Functions / Key Results Expected

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

- Create ad hoc reports based on on-line research, professional reports, subscription information sources, etc.;
- Develop extensible proof-of-concept tools and techniques to automate detection and protection using technologies best-suited for the task and document all aspects of the work;
- Provide support to the operation of defined processes and procedures (e.g., help prepare appropriate documentation, research publicly available sources in different languages, help prepare communication plans);
- Participate in on-going projects and activities of SGIS 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 a 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.