

# Robotics Software Engineer

(M/F)



2018-030-BE-SYS-RS-SWE

The successful candidate will be based in our main office at Sint-Stevens-Woluwe (Brussels Area).

The position is in the Robotics Software (RS) Team comprising 4 persons supporting the Technology, Applications & Robotics Division of our Systems Department. The candidate will mainly report to the RS Team Lead.

The main scope of the work includes the analysis, development, simulation and testing of robotics software with application to the domain of planetary exploration and on-orbit servicing with space robots. The work will be performed in the context of international R&D projects supported by the European Commission in the frame of the H2020 Space Robotics Technologies programme or developed on behalf of the European Space Agency.

## Tasks and Responsibilities

Among the candidate's tasks and responsibilities:

- Integration of developed software solutions on robotic platforms with project partners and test/validation in field campaigns
- Supporting the end-to-end implementation, testing and optimisation on target robot architecture
- Producing the technical documentation required all along the process.

## Qualifications and Experience

- MSc or PhD in a relevant field (robotics, computer science, software engineering, aerospace software, ...)
- Very strong programming skills (C++, Python) on Linux environment
- Thorough experience in one or several of SW development in ROS (any further robotics middleware would be desirable)
- Expertise and experience in one or several of the following areas are highly desirable:
  - Data fusion and computer vision: image processing, feature extraction, 3D point clouds registration, model detection, matching and tracking
  - Robotics software architectures (design), Middleware and Networking
  - Experience in mobile robotics – localization, mapping, motion control, path planning.
  - Simulation of robot(s) in Gazebo (or others) for manipulation, planning and environment reconstruction.
  - Experience with task planning, supervised, unsupervised or deep learning (neural networks)
  - Gitlab and Continuous Integration methodologies
  - Experience in Real time operating systems
- Good proficiency with technical documents production.

**Space Applications Services NV/SA**

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## Candidates will have the following skills

- Strength to cope with schedules and deadlines
- Ability to synthesise, summarise and draw conclusions
- Ability to adhere to strict standards of confidentiality
- Ability to work in distributed international teams
- Excellent organisational and communication skills
- A proactive approach, with initiative and ability to work independently
- Excellent written and spoken English.

## What Do We Offer?

- An opportunity to be involved in outstanding space and non-space robotics projects
- Working in a growing company with Staff located in Belgium, Germany, the Netherlands and the USA
- A professional, pleasant atmosphere with motivated and passionate staff, where autonomy and initiatives are encouraged
- An interesting remuneration package with a relocation allowance, if applicable
- A full time position with an indefinite contract of employment.

**Candidates shall be eligible to work in the European Union or in possession of a European Blue Card for two or more years.**

**We are looking for someone to start as of 1<sup>st</sup> February 2019 or earlier.**

- Send your CV and Motivation Letter (both in English) to [jobs@spaceapplications.com](mailto:jobs@spaceapplications.com)
- For this position, the contact person is **Mr Michel Ilzkovitz**.

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