

NASA

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POSITION TITLE: NASA Robotics Engineer

POSITION LOCATION: NASA Ames Research Center, Silicon Valley

POSITION DESCRIPTION:

Are you ready to **reinvent** space robotics? Do you want to write code that runs in **space** or on other **planets**? Do you believe that good **software** is critical to creating amazing robots? If so...

The NASA Ames Intelligent Robotics Group is looking for a full-time robot software engineer to help create the next generation of space robots. This is a unique opportunity to develop software for a variety of robots, including a new free-flying robot for the International Space Station and a planetary rover for the Moon.

The NASA Ames Intelligent Robotics Group (IRG) is dedicated to enabling humans and robots to explore and learn about extreme environments, remote locations, and uncharted worlds. IRG conducts applied research in a wide range of areas with an emphasis on robotics systems science and field testing. IRG's expertise includes applied computer vision (navigation, planetary mapping, automated science support), interactive 3D user interfaces, robot software architecture, and planetary rovers. Learn more at <http://irg.arc.nasa.gov>

DESIRED MAJORS: Applicants should hold a B.S. (or higher) in Computer Science, Electrical Engineering, or Robotics.

REQUIRED QUALIFICATIONS:

Applicants should also have excellent robotic systems development skills. A strong background in Linux-based development and open-source tools is required, plus:

- Strong background in robotics (preferably field or mobile robots)
- Significant development experience with C/C++, Java, and GNU tools
- Experience with robot software architecture and/or middleware

In addition, knowledge in one (or more) of the following areas is greatly preferred:

- Autonomy (motion/task planning, executives, etc)
- Embedded systems (especially Linux/ARM and Android/ARM)
- Navigation (metric and topological)
- Computer vision (3D sensors, tracking, mapping)
- U.S. citizenship or permanent resident status required.

HOW TO APPY:

If you are interested in applying for this position, please email the following:

1. Letter describing your background and software experience
2. Current resume
3. Contact details for two (or more) references

to Chris Provencher <chris.provencher@nasa.gov>