Job Description
Engineering Intern – Astrodynamics and Mission Analysis/Design

Atomos Space is a venture-funded startup in Denver, CO seeking to reduce the cost of access to space by developing orbital transfer vehicles (OTVs) to solve the “last mile” problem in Earth orbit. As an intern, you will assist a small, dynamic team with development, maintenance and analytical application of various astrodynamics tools (both in house and third party). This is a virtual internship, as the team is currently all working from home due to COVID-19. This may change, but the baseline internship will be remote. You can work from anywhere in the US, but the schedule will be based on Mountain Daylight Time.

Responsibilities
• Perform mission analyses and optimization activities - independent or semi-independent projects
  o Rendezvous and Proximity Operations (RPO)
  o Low-thrust orbit change maneuvers
  o Constellation and staging optimization
  o Etc.
• Update/upgrade/organize existing code library
• Participate in systems engineering activities
• Other projects as/if they arise

Qualifications
• University coursework in astrodynamics
• University coursework in scientific computing
• Current Junior, Senior, or grad student
• US Person*

Desired Experience
• Independent academic project, internship, or previous work experience in space mission design/analysis. Operating knowledge of astrodynamics and theory underlying tools like STK strongly preferred. (i.e., be able to use STK, but also develop and use custom astrodynamics tools with underlying theoretical knowledge)
• Experience with scientific computing in a Python environment
• Both introductory and advanced coursework in Astrodynamics

Logistical Information
Start date: TBD (likely May 2021)
Duration: Flexible (preferred duration 3 months)
Location: USA

Please submit resumes or CVs to sandy@atomosspace.com with the following subject line format: [Astrodynamics Internship] Last Name, First Name.
*NOTE: This position is subject to Export Control Laws (U.S. State Department regulations at 22 C.F.R. Subchapter M and the U.S. Department of Commerce's Export Administration Regulations found in 15 C.F.R. Part 730). If you are not (a) a citizen of the United States; (b) a lawful permanent resident of the United States; or (c) a person admitted into the United States as an asylee or refugee and wish to be considered for a position not subject to Export Control Law, please email info@atomosspace.com.