Chief Technical Officer

Location(s): Cambridge, Massachusetts (Greater Boston), Los Angeles metro
hybrid eligible from USA but in-person work will be required

Trailblazers are already building the road to space. It's time to design, build, test, and launch the space habitat infrastructure for a life worth living once we get there. Aurelia Institute is a space architecture research & development lab, education and outreach center, and policy hub dedicated to scaling humanity's presence in space.

Aurelia Institute is looking for a founding Chief Technical Officer to help build a new class of space vehicles and habitats. We are a small, well-funded, agile start-up team with big ideas that will impact the next stage of human space exploration.

Aurelia's CTO will work closely with the CEO and COO to define and execute on overall strategy for the new organization and to set the technical direction for the organization, prioritize novel space habitat technology development, develop institutional resources for design and manufacturing, and oversee the R&D projects undertaken. The CTO will be responsible for leading and executing engineering projects for Aurelia's space research and development arm while helping to maintain a related, analog focus on Earth-sustainability both within the business and throughout each project's lifecycle. The CTO will work closely with the team Mission Integrator on spaceflight technical readiness and logistics (e.g. for Zero-G, suborbital, and orbital payload contracts and missions) and major Aurelia "field work" deployments including architecture exhibitions and Earth-analog work. The CTO will work closely with the team's Chief Design Officer to integrate technical roadmap planning into the overall design and architecture goals of the organization. The CTO will manage the Intellectual Property of the organization and leverage that IP to support sustainable in-space habitation and technology development goals, and may support cross-over work with a related venture studio to support Aurelia-ecosystem spin-offs in early stage "life in space" companies. As needed, the CTO will represent the company at external facing events and provide input into the technical communication strategy. We hope the CTO will be an active partner in the creation, ideation and scoping of the new organization (essentially a founding C-suite partner), with a strong commitment to opening access to space and scaling humanity's presence in low Earth orbit and beyond.

Your road to space...

Interested in applying? Shoot us a note! Send an email to hello@aureliainstitute.org with "CTO applicant" in the subject line and include your resume/CV. Candidates must be authorized to work in the USA.

Chief Technical Officer

Location(s): Cambridge, Massachusetts (Greater Boston), Los Angeles metro
hybrid eligible from USA but in-person work will be required

Required experience and skills:

- B.S. and M.S. in a technical field, either directly related to Aerospace or adjacent (e.g. Mechanical/ Civil Engineering, Electrical Engineering, etc.)
- Extensive experience with CAD and mechanical design
- Experience making engineering drawings and working with multi-faceted teams of manufacturers and vendors to procure components and assemble complex technology prototypes; hands-on engineer with experience building complex electromechanical systems, and/or larger human-sized structures.
- Experience with machine shop tools and building hardware while leveraging advanced fabrication technologies (including wood shop, metal shop, rapid-prototyping, etc.)
- Ability to find creative solutions to complex problems while working alongside a small team
- Management experience with direct reports or guiding technical development in a team context
- Strong facility with project management and process engineering tools
- Strong communication skills and high emotional intelligence (EQ)
- Demonstrated commitment to creating diverse, equitable, inclusive, and accessible (DEIA) environments in their projects and teams

Preferred experience and skills (all individual bonuses – not required to bring all these skills):

- PhD in a technical field, either directly related to Aerospace or adjacent (e.g. Mechanical/Civil Engineering, Electrical Engineering, etc.)
- Industrial design experience with architectural background; experience building/fabricating human-scale structures
- Two - five years experience in the space industry
- Experience with mechatronics and embedded systems programming
- Experience with spaceflight avionics
- Experience with spaceflight attitude control and stabilization designs
- Experience with sustainability, spinning off space technology for Earth, and/or knowledge of best practices in engineering for sustainability
- Prior start-up experience

Your road to space...

Interested in applying? Shoot us a note! Send an email to hello@aureliainstitute.org with "CTO applicant" in the subject line and include your resume/CV. Candidates must be authorized to work in the USA.