JOIN OUR TEAM TODAY!

Job Title: Dynamic Systems Modelling Intern
Location: Remote
Type: Internship (Full-Time and Part-Time Hybrid)
Duration: 6 months

About AstraYAN:

AstraYAN is an innovative deep-tech start-up focused on pioneering the future design of marine and naval vessels. We specialize in developing advanced engineering solutions and platform systems for smart and unmanned vessels. As a start-up, we value creativity, collaboration, and adaptability. If you are passionate about shaping the future of marine technology, we would love to have you join our team.

The Role:

We are looking for a curious and driven Dynamic Systems Modelling Intern to assist in developing simulation tools for analyzing vibration, shock loads, and system dynamics of marine platforms. This internship offers exposure to industry-standard simulation tools, modelling practices, and real-time performance evaluations.

Key Responsibilities:

- Assist in building multibody simulation models using tools like Ansys, LS-Dyna, or MSC Software
- Work on developing vibration and shock response models for marine machinery systems
- Support the design of test scenarios for strength and load analysis under dynamic conditions
- Contribute to refinement of existing models and development of customized calculation methods
- Aid in technical documentation and communication across engineering teams

What We're Looking For

Minimum Qualifications:

- Completed 3rd year B.Tech or 1st year M.Tech in Mechanical, Ocean Engineering, Naval Architecture, or Aerospace Engineering
- Exposure to system dynamics or vibration analysis through academic projects
- Familiarity with MATLAB, Simulink, or C++ for modelling and numerical computations
- Strong analytical and problem-solving aptitude
- Ability to work independently and collaborate remotely

Preferred Qualifications:

- Experience with FEA tools such as Ansys, LS-Dyna, or similar platforms
- Understanding of multibody dynamics and design load calculations
- Interest in simulation-driven engineering and ship/marine systems
- Familiarity with system performance assessments and reporting

Why Join Us?

- **Real Impact:** Support the creation of tools for next-gen marine simulation and design
- **Mentorship:** Work alongside experienced marine simulation and FEA experts
- **Innovation Culture:** Tackle real-world vibration and shock problems using digital methods
- **Remote Flexibility:** Contribute from any location with regular virtual engagement
- **Career Growth:** Enhance your simulation expertise and boost your marine engineering career

How to Apply

Send your resume and (optional) project portfolio or GitHub link to **careers@astrayan.com** with the subject line: **"Dynamic Systems Modelling Intern Application"**