

Programming Engineer MATLAB to Julia Conversion

College of Engineering & Computer Science (CECS), VinUniversity, Hanoi

Role Description

We are seeking a skilled Programming Engineer for a short-term, project-based role. The primary objective is to convert an existing package from MATLAB to high-performance and well-structured Julia. This is a hands-on coding role focused on accuracy, performance, and code quality. The project is expected to be completed within a 1 to 3-month timeframe.

Responsibilities

- Translate the existing MATLAB codebase to efficient and well-documented Julia code, ensure the Julia version produces results equivalent to the original MATLAB package.
- Document the new Julia codebase, including function-level comments and a clear user guide.

Qualifications

- Proficiency in at least one high-level programming language (e.g., Python, C++, R). Direct experience with MATLAB and/or Julia and/or GitHub is a plus.
- Familiarity with numerical methods, linear algebra, and general scientific computing concepts such as parallel computing.

Benefits

- Contract type: Short-term, project-based.
- Duration: 1 to 3 months.
- Location: VinUniversity Campus, Hanoi. A minimum of 2 days/week working on-site at VinUni is required.
- Payment structure: Compensation will be paid in two installments:
 - The first 50% upon reaching a pre-defined project milestone (e.g., 50% of modules converted and tested).
 - The final 50% upon successful completion and final delivery of the entire package.

How to apply

Please submit your CV to the PI Hong Chu hong.ctm@vinuni.edu.vn. Include "Programming Engineer" in the subject line. Applications will be reviewed on a rolling basis until the position is filled. Only selected candidates will be contacted.