

Request for Proposal (RFP)

Executive Summary

Manufacturing Plus is seeking proposals from experienced development teams for a comprehensive Machine Learning Implementation Development project. This initiative aims to enhance our data analytics platform through advanced DevOps automation, facilitating improved operational efficiencies and data-driven decision-making. The selected team will work closely with Manufacturing Plus to deliver a robust solution within a defined timeline and budget.

Project Overview

- **Project Title:** Machine Learning Implementation Development
- **Client:** Manufacturing Plus
- **Project Type:** DevOps Automation
- **Location:** North Brianstad (Remote work not allowed)
- **Duration:** 14 months
- **Team Size:** 8 people
- **Budget Range:** \$1M - \$2M
- **Start Date:** November 30, 2025

Business Context and Objectives

Manufacturing Plus aims to leverage machine learning technology to optimize manufacturing processes and enhance data analytics capabilities. The primary objectives of this project include:

- Developing a scalable data analytics platform that integrates seamlessly with existing systems.
- Implementing advanced machine learning models to improve predictive maintenance and operational analytics.

- Automating deployment processes using DevOps practices to ensure faster, reliable releases.

Technical Requirements

Preferred Technologies

- **Django**: Advanced level
- **React**: Expert level (REQUIRED)
- **DevOps**: Advanced level (REQUIRED)
- **TypeScript**: Advanced level (REQUIRED)
- Preferred certifications: Certified Kubernetes Administrator, Google Cloud Professional
- **Node.js**: Intermediate level (REQUIRED)
- Preferred certifications: AWS Certified Solutions Architect
- **PostgreSQL**: Intermediate level (REQUIRED)
- Preferred certifications: Google Cloud Professional

Expected Team Profile

The ideal team will consist of professionals with the following profiles:

1. **DevOps Engineer** (2 positions)
2. Expertise in CI/CD pipelines and cloud infrastructure.
3. Strong experience with Kubernetes and containerization.
4. **Frontend Developer** (2 positions)
5. Proficient in React and TypeScript.
6. Experience in building user-friendly interfaces.
7. **Backend Developer** (2 positions)
8. Advanced skills in Django and Node.js.
9. Experience in RESTful API development.
10. **Data Scientist** (1 position)

11. Proficient in machine learning algorithms and data analysis.
12. Strong experience with data visualization tools.
13. **Database Administrator** (1 position)
14. Expertise in PostgreSQL and database optimization.

Timeline

- **RFP Release Date:** [Insert Date]
- **Proposal Submission Deadline:** [Insert Date]
- **Proposal Evaluation Period:** [Insert Date]
- **Final Selection Announcement:** [Insert Date]
- **Project Kick-off:** November 30, 2025
- **Project Duration:** 14 months

Budget

- Total budget for the project is estimated between **\$1M - \$2M**.
- Proposals should include detailed cost breakdowns and payment schedules.

Proposal Guidelines

Interested teams should submit their proposals addressing the following:

1. **Company Profile:** Overview of your organization, including relevant experience.
2. **Team Composition:** Detailed bios of proposed team members.
3. **Technical Approach:** Outline of the proposed technical solution and methodologies.
4. **Project Plan:** Timeline and milestones for project delivery.
5. **Budget:** Detailed cost estimate and payment terms.
6. **References:** Case studies or references from similar projects.

Deliverables and Milestones

- **Milestone 1:** Requirements Gathering and Initial Design - [Date]
- **Milestone 2:** Prototype Development and Feedback - [Date]
- **Milestone 3:** Implementation of Core Features - [Date]
- **Milestone 4:** Testing and Quality Assurance - [Date]
- **Milestone 5:** Final Delivery and Documentation - [Date]

Acceptance Criteria

Proposals will be evaluated based on the following criteria:

- **Technical Capability:** Alignment with technical requirements and team profile.
- **Experience:** Proven track record in similar projects.
- **Cost:** Competitiveness of the financial proposal.
- **Timeline:** Ability to meet outlined project timeline.

Evaluation Process

Proposals will be reviewed by a panel of Manufacturing Plus stakeholders.

Shortlisted vendors may be invited for interviews or presentations to further discuss their proposals.

Contact Information

For questions or clarifications regarding this RFP, please contact:

- **Name:** [Insert Contact Name]
- **Email:** [Insert Contact Email]
- **Phone:** [Insert Contact Phone Number]

Proposal Submission

Please submit your proposals in PDF format to [Insert Submission Email] by the proposal submission deadline. Late submissions will not be considered.

Manufacturing Plus looks forward to receiving your proposals and collaborating on this exciting project. Thank you for your interest!