Lead Engineer - FMCG

Advanced Remanufacturing and Technology Centre

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Currently, the ARTC works with 70 industry members to develop advanced remanufacturing and manufacturing capabilities. The members are comprised of global MNCs, leading equipment and software providers as well as SMEs.

At ARTC, you will have a unique opportunity to unleash your creativity and competencies to develop innovative solutions for industry members. Spanning across development to integrated systems and solutions. In addition, you will support industry members to develop strategies and technology roadmaps in Advanced Remanufacturing. You will also be part of an exciting Advanced Remanufacturing network, developing world-class knowledge in the field of Advanced Remanufacturing.

For more information about ARTC, please visit: https://www.a-star.edu.sg/artc

JOB DESCRIPTION

1. Develop and set up technical and engineering specifications for acquiring equipment, identifying and assessing suitable vendors for open tendering process
2. Coordinates with BD, Engineers, Technical and Project Management Office to deliver automation, digital and smart manufacturing projects for FMCG Industry
3. Responsible to set-up and commission continuous line and familiar with engineering processes for our new testbeds
4. Responsible to Carry out trials and commissioning all the new testbeds
5. As an engineering subject matter expert for FMCG programme deliverable
6. Prepare engineering related project status reports by collecting, analyzing, and summarizing information and trends; recommending actions
7. Interact with industry members and ensure effective communication throughout the project life cycle
8. Carry out troubleshooting and any relevant innovation activities to support ARTC/ASTAR and industries
9. Scout for new digital advanced engineering solutions for I4.0, AL and blockchain technology etc.

JOB REQUIREMENTS

1. People management and leadership skills
2. Able to work under operation and technical development environment
3. Ability to work well with technical and commercial associates
4. Computer and digital savvy, innovative and problem solving mindset

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ARTC

Development Technician - SMG
Advanced Remanufacturing and Technology Centre

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JOB DESCRIPTION

Smart Manufacturing Group is searching for Development Technicians who will support the different requirements of the program.

1. To support industry digital transformation, and development and implementation of Industry 4.0 technologies including design and build Proof-of-Concept prototypes, products, and systems to improve manufacturing and other production processes.
2. To develop and implement software tools to support data analytics for manufacturing
3. To maintain, upgrade, debug, and support previously developed Industry IoT (IIoT) and data analytics solutions by the team.
4. To help on demonstration of prototypes and demos at ARTC and other exhibitions if needed
5. To conduct test studies and collect data for analytics applications
6. Writing of technical reports and presentation of technical results

JOB REQUIREMENTS

Technical Requirements: Adequate knowledge in any one of programming languages such as Python, Java, C, C#, C++, Matlab, etc. Understanding of fundamental design principles behind a scalable application Good understanding of web programming Knowledge in databases and DB design Experience in mobile programming Good analytical and problem-solving skills Team player, excellent interpersonal and communication (verbal & written) skills in English is a must

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Electro-mechanical Engineer - AR

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The ARTC is now entering an exciting phase of growth and we are looking for people with a passion for innovation and developing R&D partnership with industry to turn ideas into practical solutions in Advanced Remanufacturing, Data-driven Surface Enhancement, Intelligent Product Verification, Advanced Robotic Applications, Additive Manufacturing Industrialization (3D Printing) and Factory of the Future.

JOB DESCRIPTION

Responsibilities:
• The incumbent will combine technologies and know-how to conceptualize, design and develop a broad range of electrical/electronic and mechanical systems or components related to the Fast Moving Customer Goods industry, focusing on safety, economy, reliability, sustainability and quality.
• Responsible of projects from the generation of ideas and detail design of concepts, to simulation, completion of models, testing and industrial development for final implementation and handover to our customers.
• Generate documentation for the projects, including concepts and detail designs, instructions, presentations and technical reports for delivery to our members.
• Train and guide other team members (permanent staff / interns) in disciplines under his/her portfolio.

Other Requirements:
• Demonstrated knowledge in a variety of technologies related to Electro-Mechanical systems engineering.
• Knowledge of factory automation simulation packages such as Siemens Plant Simulation, Line Designer, and Process Simulate Robotics.
• Possess strong analytical and conceptualization skills, along with creative and hands-on approach to problem solving.
• An agile team player with great interpersonal and communication skills, able to learn and adapt quickly to the ever-changing demands of the new technologies required by our customers.

JOB REQUIREMENTS

• Bachelor or Master’s Degree in Electrical, Electronics, Mechanical or Industrial Engineering, with a combination of knowledge and experience related to Electro-Mechanical systems industrial activities. A cross-disciplinary Masters is a considerable asset.
• Minimum 5 years work experience in design and development projects, preferably in industries related to Fast Moving Customer Goods fabrication, food-related or pharmaceutical applications.

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NDE Technical Lead (FMCG) - IPV

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For more information about ARTC, please visit: https://www.a-star.edu.sg/artc

JOB DESCRIPTION

Responsibilities:
- Provide technical leadership in specific NDE technology domains in accordance with demands and requirements of the FMCG industry for both functional (integrity) and cosmetic (appearance) package evaluation
- Take ownership of the FMCG NDE technology domain roadmap and implementation strategy
- Be accountable for technical deliverables of FMCG NDE related industry projects
- Identification of technology gaps between industrial requirements and commercial solutions
- Identification of transferable technology from conventional engineering applications to high-volume FMCG production environments
- Technical project planning, execution and documentation
- Coach team members on technical competencies

JOB REQUIREMENTS

- Experience of working with inspection systems in high-volume production environments is essential
- Proven track record of delivering advanced NDE technologies to industry
- Proven ability in mentoring and coaching of junior engineers
- Strong documentation and writing skills
- Excellent interpersonal and communication skills
- PhD, EngD or Masters in Engineering/NDE or related subject
- At least five years’ experience in NDE research and development

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Operations Lead/Engineer (Technical Purchasing & Admins) - Operations

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At ARTC, you will have a unique opportunity to unleash your creativity and competencies to develop innovative solutions for industry members. Spanning across our key technical areas in Repair & Restoration, Surface Enhancement, Product Verification, Robotics Process Development, Additive Manufacturing (3D Printing) and Factory of the Future. You will help industry members to realize the full potential of remanufacturing possibilities, from process development to integrated systems and solutions. In addition, you will support industry members to develop strategies and technology roadmaps in Advanced Remanufacturing. You will also be part of an exciting Advanced Remanufacturing network, developing world-class knowledge in the field of Advanced Remanufacturing.

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JOB DESCRIPTION

- Handling, coordinating and provide subject matter advice on entity/centre centric purchasing requests for all department, aligning Government Good Practice and ARTC’s Business Model. This will include all kind of purchasing processes for example RFQ and Tender purchase
- Engage stakeholders and relative agencies to ensure outcome is manageable and achievable.
- Handling cost analysis and competitive benchmarking of suppliers. Candidate should possess the ability to clarify any differential offered by suppliers.
- Establishing and managing contracts with suppliers, example Purchase Order, Letter of Acceptance, End Use Licence Agreement, etc. Candidate should resolve Procurement matters, example shipping, export control and foreign governing law, etc.
- Centralizing consumable needs or requests to be purchased
- Maintain and control Procurement Share Folder which will include all tracking of outstanding purchase request, SOP and depository of documentations, etc.
- Assist with auditing
- Improve in-house entity/centre centric Procurement processes and continuous improvement
- Provide training to all departments when require
- Prepare entity entity/centre monthly and management update reports
- Assist in general administrative and management support

JOB REQUIREMENTS

- Familiar with Government Procurement Policy will be an added advantage
- Excellent written and verbal communication skills are essential
- Proficient in Microsoft Excel, PowerPoint
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Operations Senior Lead/Assistant Manager (Finance & Admin) - Operations

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JOB DESCRIPTION

• Reports to Operations Director
• Manage a team of Finance and Administrative staff
• Forecast yearly budget and monthly tracking
• Management accounting for programmes revenue and expenditure
• Prepare monthly budget utilisation, conduct analysis on expenditure trend and follow up on discrepancies
• Assist and ensure timely quarterly fund requisition
• Assisting internal and external queries on payment and invoices
• Facilitate asset tagging and location tracking
• Track and follow up on account receivables (AR)
• Track and ensure timely account payable (AP)
• Ensures financial documentation is relevant, accurate and complete
• Liaison between finance shared services department and senior management
• Facilitate in the creation of memos, SOPs, Forms and presentation materials
• Conduct internal training and briefing when needed
• Schedule and plan weekly discussion and topics with HQ Finance
• Any other non-finance related duties when needed

JOB REQUIREMENTS

• Experience in Management Accounting preferred but not required
• Experience in using ERP, preferable SAP
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Project Manager - PMO

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JOB DESCRIPTION

Responsibilities:

- Reports to the Project Management Office Leader
- Assists and advises Technical Project Managers and Project Team members on best practice in the use of project management disciplines, according to the company’s Project Lifecycle Management process
- Acts as a reference point for PMO queries from Project Teams and for passing information from PMO to project teams
- Ensures project documentation (e.g. project agreement, reports, etc.) is relevant, accurate and complete
- Ensures all project documents are properly archived
- Tracks and reports on current project status/issues, providing a real-time and comprehensive view of all allocated projects to the PMO on a regular basis
- Prepare project status reports by collecting, analyzing, and summarizing information and trends; recommending actions
- Update the company’s project lifecycle management procedures and ensures project teams maintain discipline needed to successfully complete their projects
- Become an expert user of the company’s Project Management Software to assist Project Managers in using the software (e.g. creating and updating project schedule)
- Become an expert user/administrator of project-related websites
- Facilitate good communication between the cross-functional team members; fosters team work, motivates personnel and aim towards continual improvement.
- Interact with industry members and ensure effective communicate throughout the project life cycle

JOB REQUIREMENTS

- Bachelors or Masters or PhD related discipline
- Experience in Project Management preferred but not required
- At least an intermediate user of Microsoft Office (Word, Excel and PowerPoint)
- Proactive team player and technically motivated to solve problems, innovate and deliver to internal and external customers
- Good interpersonal and communication skills

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Section Manager - ARA

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JOB DESCRIPTION

• Lead a team to research, develop and implement ground breaking robotic capabilities for manufacturing industry.
• Mentor the staff in design, analyze, troubleshoot and debugging systems and develop automation solutions using robots, for industry partners
• Drive the technology developments activities and roadmap preparation
• Develop competencies and skills of all technical staff to improve overall efficiency of the team
• Coordinate with PMO team & project managers to ensure successful delivery of projects for the team.
• Partner with internal and external stakeholders to establish communication plans, and develop clear solutions.
• Motivate the team members to take responsibilities and delivery solutions to customers, maintaining through ARTC core values
• Establish team management procedures and best practices to ensure teams maintain discipline needed to successfully delivery technical KPIs.
• Evaluate & review the technical work, reports and provide constructive guidelines for improvement

JOB REQUIREMENTS

• Bachelor or Masters in Mechanical/ Electrical / Computer Science Engineering or relevant discipline
• At least 7-8 year(s) of working experience in automation industry or related field, as a senior executive or manager role
• Solid practical experience in manufacturing industry with in-depth knowledge of industry requirements and applications within the process automation
• Proven ability to mentor and coach junior engineers

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Updated March 2019
Senior Development Engineer - IPV

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JOB DESCRIPTION

Responsibilities:
- To design, develop and implement real-time monitoring system using suitable sensors and acquisition system for different types of machines.
- To perform experiments or tests on machines to collect data.
- To perform signal processing and data analysis on data collected from monitoring system.
- Technical write up and presentations.

JOB REQUIREMENTS

- Mechatronics graduate, or Mechanical Engineering graduate with keen interest about data analytics, or EE graduate with solid understanding on classical Newtonian physics. Bachelor from other engineering disciplines may be considered for junior position.
- For senior position, candidates need to show good proficiency and solid understanding on at least one of the core competencies below based on his/her working experience, and keen to develop other competencies.
- For junior position, candidates need to have passion to build their career in these competencies area.
- Good interpersonal and communication skills.

Core technical competencies required:
- Sensors (Vibration, Force, Current, etc) and DAQ (NI, Arduino, etc) - Programming for signal processing and data analytics using Python or equivalent (familiar with pandas, scipy, matplotlib, etc)

Other Requirements:
- Programming for signal processing and data analytics using Python or equivalent (familiar with pandas, scipy, matplotlib, etc)

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Updated on March 2019
Senior Development Engineer - SMG

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JOB DESCRIPTION

Responsibilities:

- Be part of a taskforce to support and contribute to the Smart Manufacturing Group (Industry 4.0) vision for the centre
- Design and build prototypes, products and systems suitable for testing and set up on Model Factory test bed
- Technical planning, execution and delivery of development projects for global industry members
- Writing of technical reports and presentation of technical result
- Design overall automation solution including system engineering, maintenance and upgrade plans, network architecture and software application
- Implementation of security and data protection
- Ensure continuity of essential compute, network and storage services
- Oversee a robust backup strategy including verification of its efficacy
- Administer physical servers and an OpenStack virtualization platform
- Direct and execute maintenance of physical and virtual systems with zero-downtime as a baseline
- Support the integration of new, cutting-edge software and hardware, with a focus on industrial manufacturing
- Manage and track both core and peripheral assets of the infrastructure

JOB REQUIREMENTS

- Minimum Degree in Mechanical / Mechatronic background.
- Minimum of 5-10 years of prior implementation & support experience with Manufacturing Industries.
- Successful track record of designing and delivering advanced automation systems.
- Proficient in using design software (Autocad, NX, etc) to create drawings and concepts.
- Strong interest in innovation and continuous improvement of manufacturing processes and equipment

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Technical Engineer (FMCG) - AMI

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JOB DESCRIPTION

Responsibilities:

- Lead the internal ARTC R&D activities and development projects related to automated high accuracy personalized dosing and filling of powders and liquids.
- Co-ordinate the research activities with other A*STAR research entities, internal project teams (project management / technical teams) and external research partners (academic and industrial) to deliver projects to our customers on time, per requirements.
- Perform data sorting, analysis, interpretation and reporting based on the experimental information collected internally / externally.
- Create various documentation for the projects, including designs, instructions, presentations and technical reports for delivery to our members.
- Train and guide other team members (permanent staff / interns) in disciplines under his/her portfolio.
- Along with other team members, ensure proactive compliance to health and safety procedures.

JOB REQUIREMENTS

- Degree in Engineering, Physics, Chemistry, Biology or in another relevant discipline, with deep knowledge of the FMCG industry and specifically filling technologies.
- Minimum 3 years work experience at leading R&D and/or development projects, preferably in food-related or pharmaceutical applications.
- An agile team player with great interpersonal and communication skills, able to learn and adapt quickly to the ever-changing demands of the new technologies required by our customers.

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Technical Engineer (FMCG) – AR

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JOB DESCRIPTION

The Advanced Remanufacturing theme aims to develop advanced technology for the rejuvenation of high value components with complex geometry, using state-of-the-art technology for cleaning, removing defects and adding material to reconstruct the features. Integrated adaptive technology minimizes human intervention and at the same time, reduces errors that can potentially lead to rework or scrapping of expensive parts, thereby enhances productivity.

Responsibilities:

- Lead the internal ARTC R&D activities and development projects related to automated high accuracy personalized dosing and filling of powders and liquids.
- Co-ordinate the research activities with other A*STAR research entities, internal project teams (project management / technical teams) and external research partners (academic and industrial) to deliver projects to our customers on time, per requirements.
- Perform data sorting, analysis, interpretation and reporting based on the experimental information collected internally / externally.
- Create various documentation for the projects, including designs, instructions, presentations and technical reports for delivery to our members.
- Train and guide other team members (permanent staff / interns) in disciplines under his/her portfolio.
- Along with other team members, ensure proactive compliance to health and safety procedures.

JOB REQUIREMENTS

- Degree in Engineering, Physics, Chemistry, Biology or in another relevant discipline, with deep knowledge of the FMCG industry and specifically filling technologies.
- Minimum 3 years work experience at leading R&D and/or development projects, preferably in food-related or pharmaceutical applications.
- An agile team player with great interpersonal and communication skills, able to learn and adapt quickly to the ever-changing demands of the new technologies required by our customers.

How to apply:

- Email your detailed resume to hr@artc.a-star.edu.sg by 31 December 2019
- Kindly indicate the position you are applying for in the subject header
- We regret to inform that only shortlisted candidates will be notified
- The above eligibility criteria are not exhaustive. A*STAR may include additional selection criteria based on its prevailing recruitment policies. These policies may be amended from time to time without notice.
Technical Lead – ROS-I
Advanced Remanufacturing and Technology Centre

The Advanced Remanufacturing and Technology Centre (ARTC) is a new industry-led centre by the Agency for Science, Technology and Research (A*STAR) in collaboration with Nanyang Technological University (NTU). Based on a contemporary business model of public-private partnership, the centre transforms remanufacturing and manufacturing research into industry ready solutions for cross-sectoral industry members by bringing together best-in-class global companies and R&D minds in Singapore.

Currently, the ARTC works with 70 industry members to develop advanced remanufacturing and manufacturing capabilities. The members are comprised of global MNCs, leading equipment and software providers as well as SMEs.

At ARTC, you will have a unique opportunity to unleash your creativity and competencies to develop innovative solutions for industry members. Spanning across development to integrated systems and solutions. In addition, you will also be part of an exciting Advanced Remanufacturing network, developing world-class knowledge in the field of Advanced Remanufacturing.

For more information about ARTC, please visit: https://www.a-star.edu.sg/artc

JOB DESCRIPTION

As a Technical Lead, you will lead a research and development team to develop next generation software robotics solutions, based on the open-source Robot Operating System (ROS) framework. Together, we have an opportunity to shape the future of robotics.

The role includes:

- Create software architecture, design and evaluate technologies to use
- Software development in C++, Python, ROS tools and libraries
- Design, analyze, troubleshooting and debugging systems and develop software solutions for industry members by translating business requirements into system requirements
- Develop testing and validation strategies with industry standards
- Technical project planning and execution on development projects for global industry members
- Technical write up and presentation
- Lead a team to research, develop and implement ground breaking robotic capabilities for manufacturing industry.
- Mentor the staff in design, analyze, troubleshoot and debugging systems and develop automation solutions using robots, for industry partners
- Drive the technology developments activities and roadmap preparation
- Develop competencies and skills of all technical staff to improve overall efficiency of the team
- Coordinate with PMO team & project managers to ensure successful delivery of projects for the team.
- Partner with internal and external stakeholders to establish communication plans, and develop clear solutions.
- Motivate the team members to take responsibilities and delivery solutions to customers, maintaining through ARTC core values
- Establish team management procedures and best practices to ensure teams maintain discipline needed to successfully delivery technical KPIs.
- Evaluate & review the technical work, reports and provide constructive guidelines for improvement
JOB REQUIREMENTS

- Degree in Robotics Engineering, Software Engineering, Computer Engineering, Electrical Engineering or Computer Science
- Minimum 5 years of experience in C/C++ software development
- Experience in leading software teams with a good understanding of formal software development and test processes is required
- Domain knowledge in ROS, robotics, machine vision, image processing or machine learning would be an added advantage
- A team player that can inspire the team to deliver for results
- Good interpersonal and communication skills is required

How to apply:

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