Research Scientist

**Industry:** Energy/Oil & Gas  
**Location:** Boston, MA  
**Timing:** Seeking candidates available immediately  
[www.aramcoservices.com](http://www.aramcoservices.com)

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**Company Overview:**

Aramco Services Company (ASC) is the U.S.-based subsidiary of Saudi Aramco, the state-owned oil company of the Kingdom of Saudi Arabia and a fully integrated, global petroleum and chemicals enterprise. ASC’s geographical area of responsibility extends throughout North America, with operations in the U.S. and Canada, and selected activities in South America.

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**Basic Function:**

Conducts and directs research and development programs requiring applications and formulations of advanced materials and nano-enabled technologies to the oil and gas industry. Applies scientific and engineering expertise in advanced materials and processing to solve complex technical challenges. Will review, coordinate, and direct the work performed by others.

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**Duties & Responsibilities:**

- Conduct and direct applied research in the application and utilization of advanced materials, including nanomaterials, inorganic, polymeric, and composite materials to technical challenges in the energy industry.
- Responsible for specifying, directing, and conducting research on nanomaterial applications for the energy industry, including nanomaterial and nanointermediate synthesis, formulation, and characterization with spectroscopic, thermal, microscopic, and rheological methods; writing and assessing proposals to expand into new nanomaterial research and technology areas; collaborating with ASC scientists and collaborators on new and existing programs; presenting results to staff, management, and the scientific community; and protecting intellectual property.
- Assist in designing new installations or modifications to existing facilities, evaluating and selecting capital equipment.
- Apply and reinforce all safety policies in the workplace.

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**Education and Experience:**

- PhD. in Chemical Engineering, Materials Science, Chemistry, or related field. In-depth knowledge of advanced materials and/or nanomaterials for energy technologies a plus.
- 10+ years hands-on experience in several relevant technical areas, including nanomaterial processing, functionalization, formulation, and characterization. Experience with the modification, functionalization, and characterization of nanomaterials, composites, inks, dispersions, coatings, emulsions, and/or surfaces is required.
- Highly interactive interpersonal skills for effective communication with project team members, various staff (including engineers, scientists, technicians, clients, vendors, etc.), and the scientific community.
- Desire to expand or develop new applied research and product development programs in nanotechnology and energy.
- Demonstrated success in proposal writing.
- Experience in supervising and directing the technical contributions of others, experience managing teams of 10+ scientists and engineers a strong plus.
- Strong verbal and written communication skills including a track record of publications in peer-reviewed journals and the ability to create and successfully implement experimental test plans.
- Demonstrated ability to work equally well independently and as part of a larger team.
- Self-motivation and strong attention to detail to efficiently complete tasks outlined in experimental test plans on schedule and within budget.
- Creative ability to solve problems that arise without compromising data quality.
- Ability to prioritize responsibilities and handle multiple duties/projects simultaneously.

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**Basic Function:**

Conducts and directs research and development programs requiring applications of advanced materials and nano-enabled technologies to the oil and gas industry. Applies scientific and engineering expertise in advanced materials to solve complex technical challenges. May review, coordinate, or direct the work performed by others.

**Duties & Responsibilities:**

- Perform original basic and/or applied research in advanced inorganic and/or polymeric materials, including nanostructured materials, nanomaterial coatings, and nanocomposites; nanomaterial surface modification and characterization; and short and long-term technology development.
- Responsible for conducting research on nanomaterial applications for the energy industry, including nanomaterial synthesis, characterization of nanomaterials and nanointermediates with spectroscopic, thermal, microscopic, and rheological methods; writing and assessing proposals to expand into new nanomaterial research and technology areas; collaborating with ASC scientists and collaborators on new and existing programs; presenting results to staff, management, and the scientific community; and protecting intellectual property.
- Assist in designing new installations or modifications to existing facilities, evaluating and selecting capital equipment.
- Apply and reinforce all safety policies in the workplace.

**Education and Experience:**

- PhD. in Chemical Engineering, Materials Science, Chemistry, or related field. In-depth knowledge of advanced materials and/or nanomaterials for energy technologies a plus.
- 5+ years hands-on experience in several relevant technical areas, including nanomaterial synthesis and characterization, including nanoscale materials, nanotubes, composites, inks, or surfaces; polymer chemistry and characterization; inorganic chemistry and characterization; nanocomposite formulation and characterization.
- Highly interactive interpersonal skills for effective communication with project team members, various staff (including engineers, scientists, technicians, clients, vendors, etc.), and the scientific community.
- Desire to expand or develop new applied research and product development programs in nanotechnology and energy.
- Demonstrated success in proposal writing
- Experience in supervising and directing the technical contributions of others.
- Strong verbal and written communication skills including a track record of publications in peer-reviewed journals and the ability to create and successfully implement experimental test plans.
- Demonstrated ability to work equally well independently and as part of a larger team.
- Self-motivation and strong attention to detail to efficiently complete tasks outlined in experimental test plans on schedule and within budget.
- Creative ability to solve problems that arise without compromising data quality.
- Ability to prioritize responsibilities and handle multiple duties/projects simultaneously.

To apply, please visit: http://aramcoservices.theresumator.com/apply/s2HygS/Research-Scientist-8073229.html?source=MIT
Research Technician

Industry: Energy/Oil & Gas
Location: Boston, MA
Timing: Seeking candidates available immediately
www.aramcoservices.com

Company Overview:
Aramco Services Company (ASC) is the U.S.-based subsidiary of Saudi Aramco, the state-owned oil company of the Kingdom of Saudi Arabia and a fully integrated, global petroleum and chemicals enterprise. ASC’s geographical area of responsibility extends throughout North America, with operations in the U.S. and Canada, and selected activities in South America.

Basic Function:
Provide support for researchers synthesizing, developing, and characterizing advanced nanomaterial technologies. Typical activities include making solutions and samples, operating material synthesis and processing equipment per laboratory operating procedures, performing analytical measurements as directed, and other duties as assigned.

Duties & Responsibilities:
- Operate laboratory equipment and analytical equipment, carry out materials related experiments, and perform initial screening and analysis of data.
- Manage analytical laboratories and develop necessary plans for equipment maintenance, operation, and repair.
- Apply safety policies in the workplace, conduct safety inspections, and keep safety records.
- Maintain up-to-date records of work progress, equipment utilization and scheduling, replacement parts, consumables, chemicals, solvents, and gas cylinders.
- Assist in designing new installations or modifications to existing facilities.

Education and Experience:
- B.S. in Chemistry, Engineering, Materials Science, or related field. Working knowledge or experience with nanotechnology and/or analytical instrumentation a plus.
- Strong analytical and creative problem-solving with sound working knowledge of laboratory and polymer instrumentation as well as microscopy/spectroscopy a plus.
- Highly interactive interpersonal skills for effective communication with project team members and various staff (including engineers, scientists, technicians, vendors, etc).
- Experience working in a polymer, wet chemistry, and/or analytical laboratory environment.
- The successful candidate will have excellent journaling, verbal and written communication skills to successfully follow instructions outlined in experimental test plans, request clarification from the project manager, and work equally well independently and as part of a larger team.
- Self-motivation and a strong attention to detail are required to efficiently complete tasks outlined in experimental test plans on schedule.
- Familiarity with laboratory documentation procedures and quality assurance concepts.
- Ability to prioritize responsibilities and handle multiple duties/projects simultaneously.
- Creative ability to solve problems that arise without compromising data quality.
- Ability to use Excel and Word to prepare graphs and tables for reports. A basic understanding of statistics is a plus.
- Aptitude with tools and mechanical devices. Some projects will require physical effort (e.g., working from a 15 foot ladder or carrying 25 lbs of equipment).

To apply, please visit: http://aramcoservices.theresumator.com/apply/adjewA/Research-Technician-8073234.html?source=MIT