



Projects & Technology – BioDomain – Researcher

Shell Business Area:	Projects & Technology Technical
Skill Pool:	R&D Skill Pool
Skill Pool Specialization:	Chemistry
Job Title:	Researcher BioDomain
Career level:	Graduate/Entry
Hours/Shifts:	9/80
Location(s):	Houston – Shell Technology Center
Company Overview:	<p>Shell Oil Company</p> <p>Shell is a global group of energy and petrochemical companies, employing approximately 90,000 people and operating in more than 80 countries and territories. In the United States, Shell has operations in 50 states and employs about 20,000 people. Shell is a leading oil and gas producer in the deepwater Gulf of Mexico, a recognized pioneer in oil and gas exploration and production technology and one of America's leading oil and natural gas producers, gasoline and natural gas marketers and petrochemical manufacturers.</p> <p>At Shell, we believe our talent is the key to global progress. We are at the leading edge of corporate innovators who make the world a better place by providing the energy it needs not only to survive but also to power its future progress. Our approach is small scale, we start as individuals and project teams, creating a positive and empowered culture where success happens naturally. We harness the power of diversity and collaboration to achieve collective greatness. Our achievements are more human than financial. Our ambitions are more personal than corporate. We use our scale to ensure our solutions have the potential to make a positive and significant difference. At Shell, our commitment to human ingenuity gives each of us our sense of purpose. Human ingenuity turns inspiration into ideas, ideas into solutions, and solutions into global progress. So in the end, global progress starts with you.</p>
Business Overview:	<p>The Biodomain Team is part of Shell Projects and Technology New Energy Research and Technologies (NERT), that provides direct business support as well as long range research in the New Energy Space, the Biodomain specifically, provides Biosciences Technology focus for RDS. The Biodomain Team is defined as those areas of business in which applied biosciences are critical for delivery. It encompasses existing business areas, including biofuels, chemicals, upstream and nature based solution to which applied biosciences will add value and create opportunities and new areas that will arise from the possession of such skills. The NERT Delivery Group is global in scope, with existing staff in Amsterdam, India and Shell Technology Center Houston (STCH). STCH activities are centered around Biochemical and Microbial Transformations. This is an exciting opportunity to be involved in a delivery group in Projects and Technology and a business whose importance to Shell is increasing by the day.</p>
Key Responsibilities / Job Description	<p>Purpose</p> <p>Candidates are sought to fill a scientist position in Shell's Biofuels Research and Development program. The program is focused on delivering low carbon options and Biofuels into the market, primarily from fermentative/anaerobic digestion and includes developing microbial transformation routes and renewable feedstocks to molecules.</p> <p>Role Accountabilities</p> <p>The role will be based in Shell's Projects & Technology Group, located in the Shell Technology Center, Houston, Texas. The successful candidate will work within Shell's in-house Biosciences</p>

	<p>and Bioengineering team, working on new routes to renewable molecules that better harness energy and atmospheric carbon, in addition supporting the New Energies business to deliver value and new low carbon options to our customers. The challenges in such a role range from novel pathway identification, host development, enzyme hydrolysis, solid and liquid phase fermentation, to molecular microbiological transformations.</p> <p>Required Qualifications/Skills Ideally, the successful candidate will have a PhD (or be in their final year/write-up of a PhD) in one of the following areas, or a related field:</p> <ul style="list-style-type: none"> • Microbiology • Biochemistry • Fermentation <p>They will have demonstrated a willingness to learn and apply cross-discipline approaches to solving problems and be happy working in a tight-knit team. Experience in one or more of the following areas would be a distinct advantage:</p> <ul style="list-style-type: none"> • Metabolic pathway improvement via transformation • Host characterization and modification • Enzyme hydrolysis • Solid or liquid fermentation (batch or continuous flow at pilot scale)
Typical Roles:	<p>Potential candidates will be engaged in a range of activities such as: development of novel approaches for carbon utilization and conversion in biosynthetic pathways, molecular transformation, microbial pathway evolution, enzyme hydrolysis, novel fermentation, and organism research.</p> <p>Responsibilities will include: design and implementation of experimental programs aimed at producing commercially viable biofuels from micro-organisms, considering a wide range of contributory factors; and identifying opportunities and engaging with the development of commercial plans.</p> <p>Candidates are expected to have excellent intellectual and analytical ability, the enthusiasm to progress their insights, strong teamwork and leadership skills, as well as the ability to broaden outside of their area of expertise. The successful candidate will be expected to work with Shell engineers globally, as well as with external partners.</p>
Education Requirements Levels:	<p>Study Level(s): PhD Discipline / Major: Biochemistry, Microbiology (or similar discipline) Minimum cumulative GPA is 3.20.</p>
How to apply:	<p>To be considered for an interview, you must apply online at our website, www.shell.us/students.</p> <p>Click on the “Students and Graduates” section and apply for Shell Graduate Program.</p> <p>We require a completed application, an updated copy of your resume, and an unofficial copy of your transcripts / grade report prior to the interview.</p> <p>You must have authorization to work in the U.S. on a full-time basis without requiring sponsorship now or in the future.</p> <p>Master’s candidates must have authorization to work in the U.S. on a full-time basis without requiring sponsorship now or in the future. In some cases, we are able to sponsor Ph.D. candidates.</p>