COMPANY
Idemitsu

POSITION
Senior Researcher (Automotive Section)

LOCATION
Detroit, MI

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The Company
Idemitsu Oil & Gas Co., Ltd. is responsible for the oil and gas upstream business in the Idemitsu Group and actively promotes their business in Norway, the UK and Southeast Asia. Their objective is to sustain the growth and development of their business, as part of their commitment to strengthen Idemitsu Group’s corporate value of making contributions to their shareholders and to society.

Since the Snorre field came on stream in 1992, they have steadily increased their production and reserves of the oil fields on the Norwegian Continental Shelf. Production volume in their Norwegian interest base in 2009 was 26,000 bbl/day. In November 2009, they acquired asset and exploration acreage in the UK, including producing oil fields. In February 2010, the commercial production from the Nam Rong - Doi Moi oil field (the NR-DM oil field) located in offshore Vietnam commenced. In order to maintain and expand production from the UK, Southeast Asia and Norway, they are striving to strengthen their business infrastructure by well balanced new exploration activities and asset deals.

More Information:
http://www.idemitsu.com/
**Lubricants**

**Marine Oils**  
Idemitsu carries a wide range of high-quality oils for all types of marine engines, incorporating the latest in technological advances for consistently high performance.

**Maintenance Oils**  
With a focus on conserving energy and reducing the use of hazardous chemicals, Idemitsu has developed a line of environmentally friendly maintenance and machine oils. This is a part of Idemitsu’s commitment to working toward a sustainable society. Their maintenance oils include zinc-free biodegradable hydraulic oils as well as long-life compressor and gear oils.

**Metal Working Oils**  
Idemitsu is an industry leader in the development of environmentally friendly machine oils. Chlorine-free metalworking oils like cutting fluids and water soluble coolants aim at reducing material waste and extending the life of machinery.

**Grease Products**  
Suitable for a wide range of industrial uses, Idemitsu’s greases are designed for multi-purpose use, long-life and functionality under extreme pressure.

**Industrial Oils**  
Other lubrication products Idemitsu offers include liquid paraffin, transformer oils, rubber oils, solvents and general-purpose lubricants.
Senior Researcher (Automotive Section)

Summary
Provides innovation in product design and development that is aligned with and supports the company’s strategic business objectives. Creating innovation and new concept and new product and analytical method development initiatives related to new business. Assists with localization of Idemitsu formulated products and identifies new and replacement raw materials. The senior researcher adheres to all quality system requirements for ISO 9001, TS 16949.

Qualifications/Requirements
- Develops and modifies formulations and specifications for automotive lubricants by working with Japanese Development Staff assigned by ILA’s parent company, Idemitsu Kosan Co. This process includes:
  - Seeking customer needs with sales team (Technical & Marketing section) and reflect customer need in new product concept.
  - Performing and/or arranging beaker blending. Making and modifying formulations as necessary to meet customer needs and requirements. Managing the laboratory testing phase.
  - Managing development process and communication with development staff of both Idemitsu Kosan and ILA. Provides and supports the distribution of technical information regarding raw materials, product formulation, product blending and product applications to ILA’s sales and manufacturing staff.
  - Making and managing “Research and Development Reports” and “Product Design Sheets (LFSRs)” based on performance and quality matter.
  - Checks all formal specifications (Spec F) for raw materials and finished products received from Idemitsu Kosan. Maintains appropriate documentation on new or changed formulations to assist in product launch phase. Communicates with Production Control, Procurement, Manufacturing and Quality Control to help ensure a smooth launch on all new or changed formulations.
  - Preparing design sheets for ILA and contract blenders. Preparing raw material specification sheets for contract blenders when necessary.
General (5%)
- Supervises development technicians and interns and day to day activities.
- Attends STLE, SAE seminars, webinars, and other continuing education for lubricant fundamentals, raw materials and lubricant applications and stays informed of current technology and trends.

Raw Material/Vendors (10%)
- Stays current on knowledge of additive technology, searches for new and replacement raw materials and works with Japanese staff to gain approval of raw materials from Idemitsu Kosan Co.
- Meets with suppliers as needed. Acts as technical liaison between suppliers, ILA and Idemitsu Kosan Co. Assists with discussions between Idemitsu Kosan Co, ILA and suppliers concerning performance, cost negotiation and new technical information.
- Evaluates new raw material choices through testing, beaker blending or other means.

Testing (25%)
- Searches for and implements new testing equipment.
- Establish new testing methods and equipment based on customer needs and requirement.

Sales Support (10%)
- Communicates with customers and Sales Team to address customer and/or application problems. Performs or coordinates appropriate testing to provide technical support. Troubleshoots problems and recommends corrective actions.

Additional Information:
- The preceding functions are examples of the types of work performed by associates assigned to this job classification. Management reserves the right to add, modify, change, or rescind work assignments and to make reasonable accommodations as needed.

Minimum Requirements:
- Education: Masters’ degree in Chemistry or equivalent experience. Doctor in chemistry preferred.
Required Experience:
- Minimum of five years experience in researching and analyzing for automotive and industrial lubricants and/or raw materials used in such lubricants.
- Formulation and development experience of lubricants preferred.

Special Skills/Job Knowledge/Abilities:
- In depth knowledge and understanding of lubricant formulations, raw materials and customer applications.

Additional Information Relevant to This Position:
- Able to effectively work in a multi-cultural work environment.
- Must adapt to a consensus based decision making management style.
- Travel approximately 10-20%.
- Japan business trip is required for development training. (About 2 months)
Location Information

Detroit, MI and Surrounding Area

Detroit is the most populous city in the U.S. state of Michigan, and a primary business, cultural, financial and transportation center in the Metro Detroit area. It is home to substantial activity in urban design, historic preservation, and architecture. The diverse culture of Detroit, Michigan, has influenced American and global culture through its commercial enterprises and various forms of popular music throughout the 20th and 21st century. Detroit is home to several institutions of higher learning, public and private schools.

Many of the area’s prominent museums are located in the historic cultural center neighborhood around Wayne State University and the College for Creative Studies. These museums include the Detroit Institute of Arts and the Detroit Historical Museum. Other cultural highlights include Motown Historical Museum, the Pewabic Pottery studio and school, Fort Wayne, the Dossin Great Lakes Museum, the Contemporary Art Institute of Detroit, the Belle Isle Conservatory, and many more. Important history of America and the Detroit area are exhibited at The Henry Ford, the United States’ largest indoor-outdoor museum complex. The Detroit Historical Society provides information about tours of area churches, skyscrapers, and mansions. Inside Detroit, meanwhile, hosts tours, educational programming, and a downtown welcome center.

Live music has been a prominent feature of Detroit’s nightlife since the late 1940s, bringing the city recognition under the nickname ‘Motown’. The metropolitan area has many nationally prominent live music venues. Major theaters include the Fox Theatre, Music Hall, the Gem Theatre, Masonic Temple Theatre, the Detroit Opera House, the Fisher Theatre, The Fillmore Detroit, St. Andrews Hall, the Majestic Theatre, and Orchestra Hall which hosts the renowned Detroit Symphony Orchestra. The city has contributed to a number of different genres over the decades leading into the new millennium. Important music events in the city include: the Detroit International Jazz Festival, the Detroit Electronic Music Festival, the Motor City Music Conference, the Urban Organic Music Conference, the Concert of Colors, and the hip-hop Summer Jamz festival.

Detroit is one of 12 American metropolitan areas that are home to professional teams representing the four major sports in North America. All these teams but one play within the city of Detroit itself. There are three active major sports venues within the city: Comerica Park (home of the Major League Baseball team Detroit Tigers), Ford Field (home of the NFL’s Detroit Lions), and Joe Louis Arena (home of the NHL’s Detroit Red Wings). In college sports, Detroit’s central location within the
Mid-American Conference has made it a frequent site for the league's championship events. The University of Detroit Mercy has a NCAA Division I program, and Wayne State University has both NCAA Division I and II programs.

Detroit is home to several institutions of higher learning including Wayne State University, a national research university with medical and law schools in the Midtown area offering hundreds of academic degrees and programs. The University of Detroit Mercy offers more than a hundred academic degrees and programs of study including business, dentistry, law, engineering, architecture, nursing and allied health professions. Other institutions in the city include the College for Creative Studies, Lewis College of Business, Marygrove College, and Wayne County Community College. The University of Michigan was established in 1817 in Detroit and later moved to Ann Arbor in 1837. With about 66,000 public school students (2011–12), the Detroit Public Schools district is the largest school district in Michigan. Detroit has an additional 56,000 charter school students for a combined enrollment of about 122,000 students. As of 2009 there are about as many students in charter schools as there are in district schools. Detroit is served by various private schools, as well as parochial Roman Catholic schools operated by the Archdiocese of Detroit.

Within the city of Detroit, there are over a dozen major hospitals which include the Detroit Medical Center, Henry Ford Health System, St. John Health System, and the John D. Dingell VA Medical Center. The DMC has more than 2,000 licensed beds and 3,000 affiliated physicians. It is the largest private employer in the City of Detroit.

With its proximity to Canada and its facilities, ports, major highways, rail connections and international airports, Detroit is an important transportation hub. The city has three international border crossings, the Ambassador Bridge, Detroit-Windsor Tunnel and Michigan Central Railway Tunnel, linking Detroit to Windsor, Ontario. Detroit Metropolitan Wayne County Airport, the area's principal airport, is located in nearby Romulus. Bishop International Airport in Flint, Michigan is the second busiest commercial airport in the region. Coleman A. Young International Airport, previously called Detroit City Airport, is on Detroit’s northeast side. Mass transit in the region is provided by bus services. The Detroit Department of Transportation provides service to the outer edges of the city. From there, the Suburban Mobility Authority for Regional Transportation provides service to the suburbs. An elevated rail system known as the People Mover, completed in 1987, provides daily service around a 2.9 miles loop downtown.
Detroit, MI and Surrounding Area

**Location Links**

### General Area Links
- City of Detroit
  - [http://www.detroitmi.gov/](http://www.detroitmi.gov/)
- Visit Detroit

### Shopping
- Shopping Malls
  - [http://experiencedetroit.com/shoppingmalls.htm](http://experiencedetroit.com/shoppingmalls.htm)
- Detroit Eastern Market

### Arts & Entertainment
- Greektown
  - [http://greektowndetroit.org/](http://greektowndetroit.org/)
- Detroit Institute of the Arts
  - [http://www.dia.org/](http://www.dia.org/)
- Belle Isle State Park
  - [http://belleisleconservancy.org/](http://belleisleconservancy.org/)
- GM Renaissance Center

### Education
- Detroit Public Schools

### Sports
- Detroit Tigers
- Detroit Pistons
- Detroit Lions
- Detroit Red Wings

### News
- Detroit Free Press
- Detroit News

### Real Estate
- Zillow Detroit, MI

Wayne State University
- [http://wayne.edu/](http://wayne.edu/)
Michigan State University
- [https://www.msu.edu/](https://www.msu.edu/)

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If you have open positions in your organization, give us a call and put our people and our process to work for you.

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