



Saint-Gobain Research (Shanghai) Co., Ltd.

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**About SGR Shanghai (Saint-Gobain Research Shanghai):**

SGR Shanghai, one of the major R&D centers of Saint-Gobain worldwide, is located in Minhang Development Zone, neighboring 6 of our plants including Performance Plastics, Glass for Automotive, Abrasives and Ceramics. Mirroring the extraordinary richness of Saint-Gobain technology, this Center hosts scientists in almost all advanced material sciences and reaches variety of research fields including material science, chemical engineering, mechanical engineering, modeling and building energy as long as grinding, coating, Optical Detection etc. SGR Shanghai has provided remarkable supports to SG's business expansion with abundant high-performance innovative products in Asia and also contributions to global R&D projects. Scientists in SGR Shanghai have helped businesses generate hundreds of ideas and patents, and thus, provide motive power to the sustainable development of Saint-Gobain.

Given the diversity and breadth of Saint-Gobain's products, employees have the opportunity to gain exposure to and tackle sustainability challenges in a range of different industry sectors. With the culture of mutual trust, mutual respect and solidarity, employees also have the opportunity to learn from a network of diversified domain experts within the group and close collaboration with international teams. Come join our innovative, passionate and entrepreneurial community at Saint-Gobain on our quest to Build a Better Home!

**Position List**

No.	Position Title
1	Grains characterization and Analysis
2	Formulation and mixing process
3	Adhesive formulation development
4	Inorganic Materials Processing
5	inorganic materials characterization
6	low-carbon cement Development
7	Ceramic materials Development
8	Organic-Inorganic Interface Study
9	Performance analysis of silicone rubber
10	Web Front-End Development
11	Software Development

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12	Life Cycle Assessment
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## Job Description

<b>Title 1</b>	Grains characterization and Analysis	<b>No. of Intern</b>	2
<b>Job Responsibilities:</b> <ul style="list-style-type: none"> <li>Supporting Nano-ceramic Alumina Grains characterization in terms of chemistry, microstructure, crystal phase, morphology, and mechanical properties etc. and literature searching.</li> <li>Support other kinds of grain analysis from the literature study and lab analysis.</li> <li>Other study areas deem appropriate as the research project.</li> </ul>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>Master candidates, major in inorganic materials and materials science and engineer.</li> <li>Communication willing and skill, oral &amp; written English</li> <li>Self-motivated, strong sense of responsibility</li> <li>Can work for 5 days per week, last for more than 4 months</li> </ul>			
<b>Location:</b> No.55 Wenjing Road, Minhang District, Shanghai, China			
<b>Compensation and benefits:</b> <ol style="list-style-type: none"> <li>The salary is 180 RMB / Day</li> <li>Free lunch and Tea Break</li> <li>Intern who stay and study out of China before getting an offer will get airfare subsidy (&lt;=5,000 RMB) only for after full-time internship for equal to or more than 4 months.</li> <li>Intern who has no permanent residence in Shanghai will get housing subsidy(800RMB/month) for more than 3 months (attendance is over 80%).</li> </ol>			
<b>Contact:</b> <a href="mailto:Recruit.sgrs@saint-gobain.com">Recruit.sgrs@saint-gobain.com</a>			

<b>Title 2</b>	Formulation and mixing process	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>The effects of the formula and mixing process on the homogeneity after mixing were analyzed.</li> <li>Related work of SEM photo analysis to find the relationship between material structure and properties;</li> <li>Various performance tests of paper base;</li> <li>Abrasive related performance test;</li> </ol>			

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**Job Requirements:**

- Bachelor or Master candidates, major in Polymer and materials science and engineer.
- Communication willing and skill, oral & written English
- Self-motivated, strong sense of responsibility
- Can work for 5 days per week, last for more than 4 months

**Location:** No.55 Wenjing Road, Minhang District, Shanghai, China

**Compensation and benefits:**

1. The salary is 150-180 RMB / Day
2. Free lunch and Tea Break
3. Intern who stay and study out of China before getting an offer will get airfare subsidy (<=5,000 RMB) only for after full-time internship for equal to or more than 4 months.
4. Intern who has no permanent residence in Shanghai will get housing subsidy(800RMB/month) for more than 3 months (attendance is over 80%).

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<b>Title 3</b>	Adhesive formulation development	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>1. Design and develop new product and property analysis (45%)</li> <li>2. Optimize and develop process (45%)</li> <li>3. Lab EHS and 5S work according to Saint-Gobain standards (10%).</li> </ol>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ Bachelor or Master candidates, major in inorganic materials and materials science and engineer.</li> <li>▪ Communication willing and skill, oral &amp; written English</li> <li>▪ Self-motivated, strong sense of responsibility</li> <li>Can work for 5 days per week, last for more than 4 months</li> </ul>			
<b>Location:</b> No.55 Wenjing Road, Minhang District, Shanghai, China			
<ol style="list-style-type: none"> <li>1. The salary is 150-180 RMB / Day</li> <li>2. Free lunch and Tea Break</li> <li>3. Intern who stay and study out of China before getting an offer will get airfare subsidy (&lt;=5,000 RMB) only for after full-time internship for equal to or more than 4 months.</li> <li>4. Intern who has no permanent residence in Shanghai will get housing subsidy(800RMB/month) for more than 3 months (attendance is over 80%)</li> </ol>			
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<b>Title 4</b>	Effect of material granulation size on mixture	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>Research area involves the following areas: <ul style="list-style-type: none"> <li>- Granulation and mixing of organic/inorganic materials</li> <li>- Be able to use related lab machines and prepare required samples</li> </ul> </li> <li>Daily management: lab EHS, 5S, equipment operation etc</li> </ol>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ Bachelor or Master candidates, major in inorganic materials and materials science and engineer.</li> <li>▪ Communication willing and skill, oral &amp; written English</li> <li>▪ Self-motivated, strong sense of responsibility</li> <li>▪ Can work for 5 days per week, last for more than 4 months</li> </ul>			
<b>Compensation and benefits:</b> <ol style="list-style-type: none"> <li>The salary is 150-180 RMB / Day</li> <li>Free lunch and Tea Break</li> <li>Intern who stay and study out of China before getting an offer will get airfare subsidy (&lt;=5,000 RMB) only for after full-time internship for equal to or more than 4 months.</li> <li>Intern who has no permanent residence in Shanghai will get housing subsidy(800RMB/month) for more than 3 months (attendance is over 80%)</li> </ol>			
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<b>Title 5</b>	Influence of different sample preparation methods on characterization of inorganic materials	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ul style="list-style-type: none"> <li>▪ Inorganic materials sample processing characterization</li> <li>▪ Strictly follow company EHS&amp;5S policies and regulations. Respect and strictly comply with SG principles of conduct and action and company policies.</li> <li>▪ Support lab projects experiment and data analysis.</li> </ul>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ Bachelor or Master candidates, major in inorganic materials and materials science and engineer.</li> <li>▪ Communication willing and skill, oral &amp; written English</li> <li>▪ Self-motivated, strong sense of responsibility</li> </ul>			

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- Can work for 5 days per week, last for more than 4 months

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<b>Title 6</b>	Development of green and low-carbon cement-based tile adhesive	<b>No. of Intern</b>	2
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>5. (60%) Conduct daily trials in lab</li> <li>6. (30%) Characterization of samples, data analysis and writing reports</li> <li>7. (10%) Lab EHS and 5S work according to Saint-Gobain standards</li> </ol>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ Master candidates, major in inorganic materials and materials science and engineer.</li> <li>▪ Communication willing and skill, oral &amp; written English</li> <li>▪ Self-motivated, strong sense of responsibility</li> </ul> <p>Can work for 5 days per week, last for more than 4 months</p>			
<b>Contact:</b> <a href="mailto:Recruit.sgrs@saint-gobain.com">Recruit.sgrs@saint-gobain.com</a>			

<b>Title 7</b>	Study on processing & properties of ceramic materials	<b>No. of Intern</b>	5
<b>Job Objective:</b> <ul style="list-style-type: none"> <li>▪ Investigation of conventional ceramic processing, including powder preparation, shaping and sintering</li> <li>▪ Study of mechanical, thermal and electrical properties of ceramic materials</li> </ul>			
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>1. Follow all the EHS regulations and rules;</li> <li>2. Conduct literature review for relevant topics, write a review report if necessary;</li> <li>3. Assist doing benchmarking work and characterization of products or samples</li> <li>4. Design experimental plan under supervision of engineer;</li> <li>5. Carry out experimental study, process optimization and product characterization;</li> <li>6. Collect experimental results and analyze data, summarize results;</li> <li>7. Write relevant technical report.</li> </ol>			

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**Job Requirements:**

- MS/PhD candidates, major in materials science/engineering (ceramic material is favorable), or chemical engineering, with undergraduate degree from a renowned university.
- Diverse knowledge background is preferred, familiar with ceramic processing is a plus.
- Good data analysis skill and willing to present research results.
- Strong sense of responsibility, good communication, and team spirit.
- Can work for 5 days per week, last for 6 months

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<b>Title 8</b>	Organic-Inorganic Interface Study on Alumina/ SiC Matrix	<b>No. of Intern</b>	3
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**Job Responsibilities:**

1. Develop new product (i.e., formulation DOE) and property analysis (45%)
2. Develop new process (i.e., mixing & molding) and industrialization (45%)
3. Lab EHS and 5S work according to Saint-Gobain standards (10%).

**Job Requirements:**

- MS candidates, major in polymer, materials science or chemical engineering, with undergraduate degree from a renowned university.
- Diverse knowledge background is preferred, familiar with ceramic processing is a plus.
- Good data analysis skill and willing to present research results.
- Strong sense of responsibility, good communication, and team spirit.
- Can work for 5 days per week, last for 6 months

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<b>Title 9</b>	Material level performance analysis and testing of silicone rubber and thermoplastic elastomer peristaltic pump tube and transmission tube	<b>No. of Intern</b>	2
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**Job Responsibilities:**

8. (60%) Conduct daily trials in lab
9. (30%) Characterization of samples, data analysis and writing reports
10. (10%) Lab EHS and 5S work according to Saint-Gobain standards

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<p><b>Job Requirements:</b></p> <ul style="list-style-type: none"> <li>▪ Master candidates, major in polymer and materials science and engineer.</li> <li>▪ Communication willing and skill, oral &amp; written English</li> <li>▪ Self-motivated, strong sense of responsibility</li> </ul> <p>Can work for 5 days per week, last for more than 4 months</p> <p><b>Contact:</b>  <a href="mailto:Recruit.sgrs@saint-gobain.com">Recruit.sgrs@saint-gobain.com</a> </p>
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<b>Title 10</b>	Web Front-End Development Intern	<b>No. of Intern</b>	1
<p><b>Job Responsibilities:</b></p> <ol style="list-style-type: none"> <li>1. (5%) Strictly follow company EHS &amp; 5S policies and regulations. Follow R&amp;D personnel's individual EHS responsibilities listed in 'EHS Responsibilities Management Program'</li> <li>2. (35%) Develop and maintain front-end applications for data science &amp; AI projects, working closely with a team of data scientists.</li> <li>3. (10%) Collaborate with data scientists to understand project requirements and develop user interfaces that effectively communicate data insights to end-users</li> <li>4. (10%) Design and implement responsive and user-friendly interfaces that adhere to best practices in front-end development.</li> <li>5. (15%) Design and develop industrial applications (software / web application / GUI) based on data models, supporting Smart Manufacturing projects.</li> <li>6. (15%) Design and develop data visualizations / reports / dashboards using tools such as Power BI.</li> <li>7. (5%) Create and maintain documentation for front-end development projects, including user manuals and technical specifications.</li> <li>8. (5%) Stay up-to-date with emerging trends and technologies, such as Generative AI, Digital Twins, MR.</li> </ol> <p><b>Job Requirements:</b></p> <ul style="list-style-type: none"> <li>▪ Master's degree in Computer Science, Software Engineering, Data Science, or a related field.</li> <li>▪ Strong proficiency in HTML, CSS, JavaScript, and Python, with experience working with modern front-end frameworks such as React / Django / Vue / AngularJS.</li> <li>▪ Knowledge in Data Science is necessary (Machine Learning, database, data visualization, etc.)</li> <li>▪ Familiarity with back-end development technologies such as Node.js, Flask.</li> <li>▪ Familiarity with software engineering, skill in Java / C / C++ is a plus.</li> <li>▪ Experience with WebGL / Three.js or data visualization tools such as Power BI is a plus.</li> <li>▪ Strong problem-solving and analytical skills, with an ability to work collaboratively with data scientists, material scientists and other stakeholders.</li> <li>▪ Communication skills, oral &amp; written English, strong sense of user-centric</li> </ul> <p><b>Contact:</b>  <a href="mailto:Recruit.sgrs@saint-gobain.com">Recruit.sgrs@saint-gobain.com</a> </p>			

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<b>Job Title 11</b>	Software Development Intern	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>1. Understand Saint-Gobain production process, use edge device to extract process data;</li> <li>2. Develop database for collection of process parameters;</li> <li>3. Develop user friendly interface for process data visualization based on Grafana or other data visualization tool.</li> <li>4. Maintenance and upgrade of existing analysis tool and analysis tool deployment;</li> </ol>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ MS candidates, major in Computer science, mechanical engineering or other related majors;</li> <li>▪ Proficiency in programming languages, Python is mandatory, Experience with SQL, Node-Red, JavaScript is a plus;</li> <li>▪ Familiar with basic machine learning techniques;</li> <li>▪ Experience with Django framework is a strong plus</li> <li>▪ Willing to communicate.</li> <li>▪ Autonomy, strong sense of responsibility.</li> <li>▪ Be able to work for &gt;4 days per week, last for more than 4 months;</li> </ul>			
<b>Contact:</b> <a href="mailto:Recruit.sgrs@saint-gobain.com">Recruit.sgrs@saint-gobain.com</a>			

<b>Job Title 12</b>	Life Cycle Assessment	<b>No. of Intern</b>	1
<b>Job Responsibilities:</b> <ol style="list-style-type: none"> <li>1. Support LCA (Life Cycle Assessment) / EPD (Environmental Product Declaration) projects in the Asia-Pacific region (LCA modeling, report writing, project review, etc)</li> <li>2. Answer LCA-related technical questions from LCA practitioners of countries of APAC region</li> <li>3. Support country LCA practitioners in APAC region</li> <li>4. Strictly follow company EHS&amp;5S policies and regulations. Respect and strictly comply with SG principles of conduct and action and company policies.</li> </ol>			
<b>Job Requirements:</b> <ul style="list-style-type: none"> <li>▪ Master candidates, major in Science and Engineering, including Environmental Engineering.</li> <li>▪ Experience in sustainable development-related projects is preferred.</li> <li>▪ Knowledge on LCA theory or LCA software tools is preferred.</li> <li>▪ Communication willing and skill, oral &amp; written English.</li> <li>▪ Self-motivated, strong sense of responsibility.</li> </ul>			

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- 6. Can work for 5 days per week, last for more than 4 months.

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