Senior Engineer / Engineer – Solid State Lighting, Display and Printed Electronics (Ref. 15109)

Duties

The appointee will work on the development of advanced lithium sulfur or lithium ion battery through optimization of the cathode, anode, separator as well as the electrolyte. He/she will be responsible for a project base research to achieve milestone targets and the following commercialization related work.

Requirements

- Postgraduate degree, Ph.D. preferred, in Chemistry, Material Science/Engineering or related disciplines and fulfill at least one of the following technical requirements:
- Knowledge in electrochemistry;
- Knowledge in battery materials synthesis including cathodes, anodes composite;
- Experience in lithium cell design, especially in electrolyte and separator;
- Experience in lithium base battery process including coin cell fabrication, cathode/anode coating, pouch cell fabrications;
- Knowledge in lithium base battery testing and electrochemical property characterization;
- Knowledge in some commonly used characterization methods, including SEM, EDX, XRD, IR, Raman, AFM, DSC and TGA.
- Positive, creative, analytical and good troubleshooting skills;
- Self-motivated, good interpersonal and communication skills;
- Good command of spoken and written English and Chinese, proficient in Putonghua is an advantage;
- Less experience will be considered as Engineer.

Senior Engineer / Engineer – Sustainable Energy (Ref. 15108)

Duties

The appointee will work on the development of new materials and processes for lithium ion batteries. He/she will work in a team which is responsible for:

- Design and formulation of electrolytes and additives for lithium ion batteries;
- Characterization and evaluation of sample materials and batteries;
- Working closely with teammates in developing processes for materials production;

Requirements

- A Master/PhD degree in chemistry, organic/polymer chemistry, materials science/engineering, or related disciplines;
- Experience in development of lithium ion batteries materials and battery cells fabrications
- Experience in battery electrolyte development is an advantage;
- Experience in electrochemical tests such as battery testing, CV and EIS;
- Knowledge in characterization techniques including NMR, HPLC and FT-IR;
- Positive, creative, analytical and good troubleshooting skills;
- Have good communication and presentation skills;
- Good command of spoken and written English and Chinese;
- Less experience will be considered as Engineer.

Senior Engineer / Engineer – Bio and Healthcare (Ref. 15121)

Duties

- The appointee will be responsible for project implementation, including experimental design, laboratory equipment operation, sample preparation, properties characterization, data analysis, performance testing in the following areas:
- Develop formulations for pharmaceutical drug delivery;
- Characterize the formulations by SEM and HPLC;
- Perform *in-vitro* studies of formulations;
- Prepare project progress reports, meeting slides, SOPs, and related documents;
- Work closely with project sponsors, suppliers, professors and other project related parties;
- Incubate idea to explore the opportunity of cooperation with industry partners.

Requirements

- Master (Mphil: >4~5 year) or Ph.D. degree (>1 year) in Pharmaceutical Science, Chemistry, Biomedical Engineering, Bioengineering, Chemical Engineering, or related disciplines;
- Hands-on experiences in various types of R&D work, especially in biopolymer related projects;
- Solid experiences in pharmaceutical R&D area will be an advantage;
- Wholehearted application to work with high motivation;
- Work independently and able to communicate in teamwork;
- Good command of English and Chinese, articulate report writing/presentation skills as well as abilities in literature/patent search;
- Positive, analytical, critical thinking and good troubleshooting skill;
- Have a sense of ownership for his/her work;
- Willing to work under pressure.

Senior Engineer / Engineer - Construction and Building Materials (Ref. 15127)

Duties

The appointee will be responsible for project implementation, including experimental design, laboratory equipment operation, sample preparation, properties characterization, data analysis, performance testing in the following areas:

- Develop formulations for microencapsulated materials;
- Characterize the formulations by SEM, DLS, OM, HPLC and other relevant methods;
- Perform scaling up studies of formulations;
- Prepare project progress reports, meeting slides, SOPs, and related documents;
- Work closely with project sponsors, suppliers, professors and other project related parties;
- Incubate idea to explore the opportunity of cooperation with industry partners.

Requirements

- Master (Mphil: >4~5 year) or Ph.D. degree (>1 year) in Chemistry, Material Science, Bioengineering, Chemical Engineering, or related disciplines;
- Hands-on experiences in various types of R&D work, especially in polymer synthesis and colloidal system related projects;
- Solid experiences in organic or inorganic encapsulation R&D area will be an advantage;
- Wholehearted application to work with high motivation;
- Work independently and able to communicate in teamwork;
- Good command of English and Chinese, articulate report writing/presentation skills as well as abilities in literature/patent search;
- Positive, analytical, critical thinking and good troubleshooting skill;
- Have a sense of ownership for his/her work;

Willing to work under pressure.