



Job Title: Staff Engineer/Scientist

Summary:

The Small Business Administration has recognized OptoKnowledge Systems, Inc. (OKSI) as one of the top federal research and development innovation companies. We solve problems and deliver complete solutions to our clients. Our slogan is 'converting light into knowledge,' and if the information is available in the photons, we can make a system that extracts and retrieves the data that is needed. We are looking for an enthusiastic Engineer / Scientist to join our team. We want someone who can solve problems – not just contribute to a narrow need, but also come up with an idea of how to solve a problem (say, improved color night vision, a more efficient pushbroom hyperspectral system, etc.) and be an integral part of a team to develop the final product. We would like you to have experience in image processing and analysis, and be comfortable interfacing with our mechanical engineers, software engineers, algorithm specialists, etc. We are looking for someone with 5 to 10 years of R&D experience, who loves a challenge and wants to contribute brainpower and knowledge to a team.

About Us:

OptoKnowledge Systems, Inc. is a leading R&D-based turnkey imaging systems provider. We solve problems and deliver complete solutions to our clients by developing systems including electro-optical sensors, algorithms, and data collection methodologies. We also help our customers collect data in the field, process, and analyze that data. Our areas of emphasis range from military and defense to precision agriculture and farming. We are a team of highly energetic and enthusiastic scientists, and we are seeking ambitious, driven, and self-motivated individuals to add to our team. OKSI has been in the Southern California area for over 20 years and is a growing, privately owned small business. The Small Business Administration awarded OptoKnowledge the prestigious Tibbetts Award for our ongoing contribution to, and commercialization of, federal research and development.

We offer very competitive wages and benefits, including medical, dental, vision, and life insurance, as well as retirement contributions, etc.

Job Description:

OKSI is looking for someone who is enthusiastic, has interesting ideas, and is willing to go out on a limb to come up with creative solutions. The ideal candidate will be willing to invest personal time to learn new fields and technologies, and will be in a continuous learning mode, since s/he will be working in such a diverse spectrum of scientific fields and technologies. Specifically, OKSI is currently seeking an Engineer / Scientist with experience in image processing, developing algorithms for motion detection, target tracking, measurements, passive ranging, image analysis, automated registration of various image modality, color spaces, etc., and who can work hands-on with hardware, learn color concepts to develop ideas on improved image fusion, etc.. The employee will come up with novel solutions to problems, write algorithms, design experimental processes, and assist in the design and building of hardware and software systems. This position will be highly independent and requires the individual to take complete ownership of projects – if you need to hide within a support team, this is not the job for you. That said, all projects will be collaborative efforts with various other team members.

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Duties:

- Own the design, specifications, implementation, and quality control of all image processing algorithms (R&D and production)
- Propose algorithmic solutions and trade-off analyses to problems presented by other engineers, customers, etc., including the entire process from problem definition, to pertinent concepts and solutions
- Demonstrate proposed solutions by developing documentation, flowcharts, layouts, diagrams, and charts, as well as hardware concepts, hardware selection processes, optimization, etc.
- Collaborate with other hardware and software scientists to deliver the most desired solution for any particular project
- Update job knowledge by studying the state-of-the-art, ongoing research in the field, etc.; participate in educational opportunities; read professional publications; maintain personal networks; participate in professional organizations – this position requires YOU to be aware of what research is going on at universities around the world that may help OptoKnowledge improve our products, provide better R&D proposals, etc.
 - Position will include assisting in, and preparing proposal solutions for government solicitations, submitting papers to journals, etc.
- Responsible for project management, ensuring engineering specifications and deadlines are met
- Interface with clients, vendors, sub-contractors, and other project teams to understand the scope of work and provide the best solution.

Qualifications:

- PhD in relevant Engineering or Scientific fields (e.g., physicist, software engineer, mathematician, etc.)
- Experience: 5-10 years
 - Must have experience in image processing and analysis
- Must be a self-starter and a fast learner; must work efficiently, both independently and within a team; must have very good problem solving skills and attention to details
- Excellent written and verbal communication skills required - must be able to write clear reports, papers, proposals, etc., and efficiently discuss the same with other scientists, engineers, and customers
- US CITIZENSHIP REQUIRED
- Clearance Level: none required, must be eligible and willing to apply for security clearance.

Desirable Experience / Knowledge:

- Previous experience in EO/IR systems a plus
- Current or past security clearance a plus.

Please email resume to:

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