



# Senior Mechanical Engineer

H3D, Inc. seeks a full-time senior mechanical engineer to join our fast-paced team immediately. Responsibilities will include design, manufacturing, and testing of sophisticated and complex sensor systems and supporting equipment. The successful candidate will be able to work closely with our mechanical team and detector scientists to create elegant, manufacturable products in a short time period. This position will include some hands-on duties, so strong mechanical aptitude and familiarity with tools is strongly desired.

## Prerequisites:

- Bachelor's degree in Mechanical Engineering or equivalent
- 10+ years of experience in a related engineering role with an emphasis on mechanical design or testing
- Significant experience with SolidWorks
- Ability to create new and interpret existing geometric drawings / models. GD&T Literate
- USA Work Authorization
- Ability to travel occasionally

## Job Description:

- Ability to advise junior and mid-level technical resources on designs to reduce cost and timing and increase probability of a successful program.
- Advise upper management of design pros and cons, taking into consideration internal and external forces which may impact the program outcome.
- Ability to work on several programs or projects simultaneously.
- Identify liabilities/issues in the design, development, or assembly process to ensure customer needs are satisfactorily met while keeping projects on time and on budget.
- Advise program changes such as priority and/or budget to meet customer needs and program goals.
- May act as program and/or development adviser.
- Support other departments on proposals, IP, or other design and/or program need as requested.
- Support the addition and on boarding of new vendors.
- Create CAD models and detailed part designs to support prototyping and production.
- Implement creative solutions to mechanical design problems.
- Integrate electronics solutions from our circuits team.
- Generate manufacturing drawings for designed parts and assemblies.
- Interface directly with suppliers to procure necessary components and assemblies. Resolve any issues related to cost or timing to keep project on track.



- Assist in prototype assembly, testing, and troubleshooting.
- Design, development, and test any tooling and/or processes necessary to successfully complete the intended design targets.
- Implement design revisions as a result of assembly & testing issues.
- Verify and validate both product and supporting systems performance.
- Maintain and retain design documentation including all drawings, CAD, and testing data.
- Support an organized development process using PDM data management systems.
- Perform other related duties as assigned by management.

The ideal candidate will be capable of taking ownership of assigned tasks and run them to ground with minimal supervision. She or he will be joining a hard-working team that is pushing the limits of available technology to create truly groundbreaking gamma-ray detection systems.

**About Us:** H3D commercializes CZT-based 3D radiation-imaging technologies for nuclear power plant, defense, homeland security, waste management, and medical applications. We seek to provide our customers with the highest performance and most user-friendly instruments possible. A 2011 spinout from the University of Michigan, we have twice been awarded the SPARK FastTrack award for impressive growth and have performed sponsored research for the DoD, DoE, NIH, NIST, and others. We currently ship products to nuclear power plants and research labs around the world.

Please email a cover letter and resume to H3D, Inc. at [HR@h3dgamma.com](mailto:HR@h3dgamma.com). H3D, Inc. offers an attractive benefit package that includes health insurance, paid holidays and vacation, and a competitive 401(k) plan. H3D is an equal opportunity employer. All qualified women, minorities, disabled, and veterans are encouraged to apply. Work will occur at our Ann Arbor, Michigan office. Visit our website at <http://www.h3dgamma.com>.