

## Senior Design Engineer Job in Branford, CT

**Job Type:** Full-time, **Work Environment:** Office and research laboratory. 0-5% Travel.

### Who is Ancera?

Ancera is a pioneer in the development and commercialization of Microbial Security products. Ancera's flagship PIPER™ platform is the fastest microbial quantification and characterization solution across the food, agriculture, and livestock supply chains.

Powered by patented MagDrive™ technology, PIPER™ generates pathogen and microbiome data in hours instead of weeks. The PIPER™ analytics engine aggregates microbial data in an operational context. This enables verifiable chain of custody and microbial risk assessment at each point in the supply chain.

Ancera is currently looking for an experienced engineer to enable continued development and broader applications of the MagDrive™ technology.

### Responsibilities:

- Characterize and optimize the PIPER™ hardware and consumables.
  - Design, model, and optimize microfluidic as well as electromechanical systems.
  - Apply theoretical engineering and physics principles to practical product applications.
  - Independently create complex engineering designs.
  - Effectively manage time to achieve project goals on schedule with minimal oversight.
  - Incorporate descriptive statistical analysis while delivering concise presentations to cross-functional peer groups.
- Support continuous improvement and product expansion efforts.
- Participate in the entire product lifecycle from hands-on prototyping through full-scale contract manufacturing.
- Work in a multi-disciplinary environment composed of scientists, engineers, and commercialization professionals.
- Integrate novel biological assays in microfluidic devices.
- Participate in voice of customer and joint development efforts with major food producers, service providers, as well as pharmaceutical companies.
- Collaborate with outsourced software, hardware, and manufacturing engineering organizations.

### Qualifications:

#### Technical skills

- Strong, current skills relevant to microfluidics and automation for biotechnology applications.
- Expert in design and modeling software tools. (Solidworks required, COMSOL preferred)
- Experience in microfluidic design, computational fluid dynamics, and practical application of physics principles.
- Effectively communicate technical findings that impact product function and development timelines.

- Experience working in a regulated industry.
- Prior collaboration with contract manufacturers and engineering firms preferred.
- Prior experience in a biosafety environment preferred.
- Functional understanding of microscopy systems preferred.

#### Personality traits

- Passionate about working on challenging disruptive technologies.
- Comfortable working as a member of a close-knit team.
- Excellent interpersonal skills.
- Ability to work with personnel in a multi-disciplinary environment.
- Confident asking questions as well as providing 360 degree feedback with team members.
- Ambition driven with critical thinking skills.
- Absolute attention to detail.
- Perform well under fast paced and challenging product requirements.
- Ability to handle multiple projects at the same time.
- Polite, persistent, and patient.

#### Education/Experience:

- BS in a relevant Engineering (Mechanical, Electrical, Systems, etc.), Physics, or related discipline plus 10+ years' experience.
- MS candidates with 8+ years' experience.
- Must have demonstrated industry applications of complex engineering design principles. Prior experience with successful product launches strongly preferred.