

# Josiah Gibbs

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## APPLICATION

A university position  
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## PROFILE

In case it isn't clear, this is a résumé template with some filler material about Josiah Gibbs from Wikipedia. If you don't know who he was, check out the Wikipedia page linked at the top. As a chemical engineer, he's probably one of my favorite scientific people.

## EXPERTISE

[physics](#) [chemistry](#) [mathematics](#) [thermodynamics](#)  
[statistical mechanics](#) [vector calculus](#) [optics](#)

## WORK EXPERIENCE

**Professor**  
**Mathematical Physics**  
**Yale College**

- | Taught diverse subjects including Latin and physics
- | Published papers on optics, physics, and mathematics
- | Canonized statistical thermodynamics by explaining macroscopic phenomena in terms of statistics on microscopic particles

## EDUCATION

**PhD in Engineering**  
**Yale College: 1863**

- | First engineering doctorate in the US

**Bachelor's degree**  
**Yale College: 1858**

**High School Diploma**  
**Hopkins School: 1854**

## PROJECTS

### On the Form of the Teeth of Wheels in Spur Gearing

- | PhD thesis
- | Used geometric techniques to investigate the optimum design for gears

### A Railcar Brake

- | US Patent 53,971
- | [Link to patent](#)
- | An arrangement of rods and springs to applies the brakes to a railcar when the momentum of the car changes, reducing the number of brakemen needed to apply the brakes.

### On the Equilibrium of Heterogeneous Substances

- | Published in several parts between 1875 and 1878 in the *Transactions of the Connecticut Academy of Arts and Sciences*
- | Applying thermodynamic laws and relations to a system in a quantitative manner
- | Using graphical methods and phase diagrams to represent thermodynamic transformations
- | Introducing the notion of "free energy" and "chemical potential"
- | Derived phase rules for simple systems

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