



## Positions Available for Senior Computational Engineer

*Dr. James H. Leylek, Executive Director of CU-CCMS, located in Greenville, South Carolina is pleased to announce the availability of multiple Senior Computational Engineer positions.*

Clemson University Computational Center for Mobility Systems (CU-CCMS), a comprehensive computational engineering center, is seeking exceptional PhD & MS level engineers experienced in the CFD and FEA areas. These positions are especially suitable for highly motivated and self-starter type individuals who are looking for balanced career growth opportunities in both advanced methods development and challenging applications. Successful candidates are expected to split their time to engage in activities leading to proposals funded by the private sector companies and usual federal government sources. Yet another desirable attribute includes the ability of technical staff to effectively operate in both the individual-contributor and team-player modes. Specific industries targeted by the CU-CCMS include automotive, aviation and energy. An ideal candidate should possess fundamentally sound engineering training in mechanical, aeronautical engineering and other closely related fields and demonstrated capabilities.

The CU-CCMS is a rapidly expanding, dynamic organization comprised of full-time career engineers who have no teaching and committee type academic obligations. Making use of a dedicated, massive high performance computing (HPC) system (please see details on back) and unique set of validated computational modeling capabilities, the CU-CCMS offers physically realistic and economically feasible solutions while operating in exactly the same time-scale found in the private sector. CU-CCMS is dedicated to reducing the overall design cycle times of clients' product design, optimization, research and development processes through fast-turnaround-time computations, simulation, and predictions in a diverse set of fields ranging from computational fluid mechanics & heat transfer, structural analyses, acoustics, optimization, electromagnetism and many, many others.

Our offices are located at the new 252 acre Clemson University International Center for Automotive Research (CU-ICAR) in Greenville, SC.

### *Required Qualifications (partial listing):*

- ⇒ An earned PhD with 3 or more years of relevant experience; or MS degree with at least 7 years of relevant experience, is required. Candidate should have a strong record of educational achievement in mechanical engineering or a similar field. Candidate must be a U.S. citizen.
- ⇒ A strong demonstrated capability in a computational engineering field such as CFD, FEA, or similar area. *Relevant experience in the automotive, aviation or energy industry is strongly preferred.*
- ⇒ Must be driven, self-starter and able to excel in a fast-paced, entrepreneurial environment. The ability to attract and retain key clients on major funded programs is a core requirement of all employees.

Please send resumes or inquires to [casandg@clemson.edu](mailto:casandg@clemson.edu)  
or mail to

Ms. Casandra Gibson, CU-CCMS  
ATTN: HR – Senior Engineer Position  
7A Research Drive, Greenville SC 29607

*For the Complete Job Description & Required  
Qualifications, Please Visit Our Website at  
[www.clemson.edu/cu-ccms](http://www.clemson.edu/cu-ccms)*



Clemson University is an Affirmative Action/Equal Employment Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status.





## Dedicated HPC System Details

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### *Compute Grid:*

430 SB6000 blades (each with 2 Intel L5420 quad-core CPUs & 32 GBytes of RAM)

35 Tflops

3,440 processing cores

14 TBytes of RAM

Voltaire's 20 Gbits/s Infiniband network (DDR)

### *Servers:*

E25K server (with 144 cores and 680 GBytes of RAM)

Two E6900 servers (each with 48 cores and 384 GBytes of RAM)

### *Storage:*

40 TByte capacity high-speed disk drives & hundreds of TBytes capacity backup/archive system

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