PROMOTION RECOMMENDATION
University of Michigan-Flint
College of Arts and Sciences
Department of Computer Science, Engineering, and Physics

Olanrewaju Aluko, assistant professor of mechanical engineering, Department of Computer Science, Engineering, and Physics, College of Arts and Sciences, is recommended for promotion to associate professor of mechanical engineering, with tenure, Department of Computer Science, Engineering, and Physics, College of Arts and Sciences.

Academic Degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Year</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D.</td>
<td>2007</td>
<td>Howard University, Washington D.C.</td>
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<tr>
<td>M.S.</td>
<td>1995</td>
<td>University of Ilorin, Nigeria</td>
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<tr>
<td>B.S.</td>
<td>1989</td>
<td>University of Ilorin, Nigeria</td>
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Professional Record:

- 2009 – Present: Assistant Professor of Mechanical Engineering, University of Michigan-Flint
- 2007 – 2008: Senior Lecturer of Mechanical Engineering, Michigan Technological University
- 2007 – 2007: Research Associate, Howard University
- 2007 – 2006: Visiting Assistant Professor, Texas A&M University-Kingsville
- 2001 – 2006: Graduate Research Assistant/Graduate Teaching Assistant, Howard University
- 1999-2001: Lecturer I/Industrial Coordinator, University of Ado-Ekiti, Nigeria

Summary of Evaluation:

Teaching – Professor Aluko is an excellent teacher who uses combined approaches to engage students in investigation of realistic problems in a manner consistent with the best practices in engineering. Students rate him very highly in their assessment of his teaching. His teaching is vital to the growing major of Mechanical Engineering as he is responsible for a large portion of the required classes in that discipline. Overall Professor Aluko is a fine teacher and his students are well served by his pedagogy.

Research – Professor Aluko has produced a significant corpus of work on an important area of materials engineering. His work has been widely published in significant peer reviewed venues and competitive conferences. He has concentrated on the topic of combining analytic methods with computer simulations to better understand damage and failure of composite systems. This work has important implications for industries that use composite systems such as aerospace and telecommunication sectors which are vital to modern society. He has a research agenda that will carry this important work into the future.
Recent and Significant Publications:

Referred Journal Articles


Referred Conference Articles


Service – Professor Aluko has contributed significantly in service to the Department of Computer Science, Engineering, and Physics. Similarly, he has participated meaningfully to service to the College of Arts and Sciences and university level governance at the University of Michigan-Flint. He is an outstanding academic citizen of UM-Flint and serves the organizations with which he interacts with skill and integrity.

External Reviewers:

Reviewer (A):
“The candidate's [sic] publications have been mainly in the area of failure of composite joints damage. The area is wide, and this early focus could develop both vertically, in more depth, or with horizontal migrations to related aspects. Such a focus is not considered to be deficient by any means.”

Reviewer (B):
“Overall, Dr. Aluko has done good job as a researcher and a teacher.”

Reviewer (C):
“Dr. Aluko approaches this topic with a strong mathematical foundation, built upon Lekhnitskii’s classical theory on anisotropic plates. He makes his case in a rigorous manner, validating his method with respect to published experimental results and other approaches. Dr. Aluko’s [sic] has published in peer-reviewed conference proceedings and in recently established journals in the area of mechanics.”

Reviewer (D):
“In conclusion, in the area of ‘Research, Scholarly and Creative Activities,’ it seems that Professor Aluko is an active faculty member in his department, and there is an interaction between him and the related professional community. He has the potential to expand his research activities by including contemporary issues in his field.”

Reviewer (E):
“He looks to have done a fairly good work [sic].”

Reviewer (F):
“On reading Dr. Aluko’s publications and assessing the quality of papers, I find that they are of a high quality and published at reputable venues. The ASME annual congress (IMECE) is the premier meeting for mechanical engineers and he has presented his research over a period of time, successfully incorporating novel analytical methods in his research.”

Reviewer (G):
“Dr. Aluko’s research falls within the scope of analytical research in pinned joints in composite materials. The quality of the work is good, ... There are numerous synergistic works being pursued in the field of composite joints.”
Summary of Recommendation:

Professor Aluko is a fine teacher, very productive scholar, and an excellent colleague. I fully concur with the Executive Committee of the College of Arts and Sciences and recommend that Olanrewaju Aluko be promoted to associate professor of mechanical engineering, with tenure, Department of Computer Science, Engineering, and Physics, College of Arts and Sciences.

Recommended by:

[Signature]
Albert C. Price, Interim Dean
College of Arts and Sciences

Recommendation endorsed by:

[Signature]
Gerard Voland, Provost and
Vice Chancellor for Academic Affairs

[Signature]
Ruth J. Person, Chancellor
University of Michigan-Flint

May 2014