

ASSEMBLY REQUIRED

February 2025

THE WATER COOLER

We are excited to welcome two new talented professionals to PEPM Group! Their expertise will drive our growth and success. Welcome aboard, Anthony and Ash!

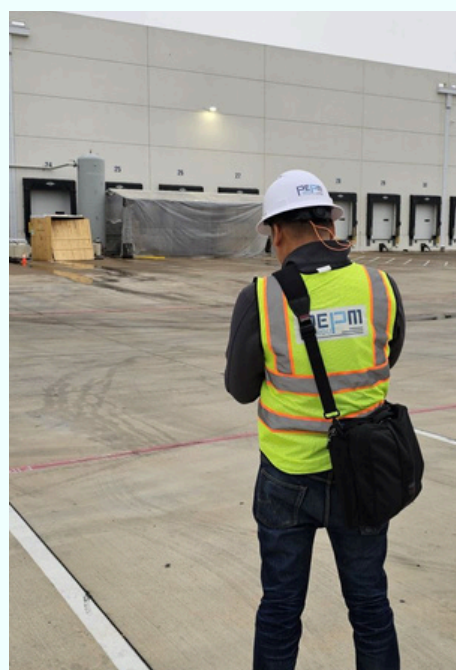


Anthony Keener, PMP, joins PEPM as Senior Project Engineer. His expertise spans across thermal oxidizers, burners, and modular facilities, ensuring PEPM stays at the forefront of industry innovation in our energy and food processing projects.



Ash Mahadev joins PEPM as Structural Design Engineer. Ash's expertise in 3D modeling and drafting will be a fantastic addition to our team as we continue to innovate and deliver exceptional engineering solutions.

We're expanding our engineering services and bringing our expertise in mechanical, structural, civil, and electrical engineering design to a major food processing plant in Charlotte, NC. We've been entrusted to design and implement cutting-edge blancher-cooler lines, a project that will significantly boost the plant's operational efficiency and enhance the quality of their outgoing products. At PEPM Group, we're passionate about engineering solutions that drive real results for our clients. Looking forward to seeing this project come to life!



PEPM Group has officially begun the design phase for a new mechanical utility building along with an air compressor system and hot water system at a food processing plant in Fort Worth, Texas! Our dedicated team of experts, including a mechanical engineer, electrical engineer, and structural engineer, recently visited the site to thoroughly scope and measure existing conditions. This on-site assessment is essential for determining the optimal location for the new building and identifying key design considerations.



WE ARE HIRING!

For a long-term fulfilling career, a caring, encouraging, and respectful working place, contact PEPM. Apply today at www.pepmgroup.com/careers

- Mechanical engineer (Fayetteville AR or Tulsa OK), 5+ years of mechanical design experience, including food processing facility design. PE preferred.
- Electrical engineer (Fayetteville AR or Tulsa OK), 5+ years electrical or control engineering design experience, including food process facility design, PE preferred.
- Accounting Assistant (Tulsa, OK) - 2+ years experience, Associate's or Bachelor's Degree required.



TRULY AUTONOMOUS AI IS ON THE HORIZON

Researchers have developed a new AI algorithm, called Torque Clustering, that is much closer to natural intelligence than current methods. It significantly improves how AI systems learn and uncover patterns in data independently, without human guidance.

Torque Clustering can efficiently and autonomously analyze vast amounts of data in fields such as biology, chemistry, astronomy, psychology, finance, and medicine, revealing new insights such as detecting disease patterns, uncovering fraud, or understanding behavior.

The Torque Clustering algorithm outperforms traditional unsupervised learning methods, offering a potential paradigm shift. It is fully autonomous, parameter-free, and can process large datasets with exceptional computational efficiency.

It has been rigorously tested on 1,000 diverse datasets, achieving an average adjusted mutual information (AMI) score -- a measure of clustering results -- of 97.7%. In comparison, other state-of-the-art methods only achieve scores in the 80% range.

Original Article: Truly autonomous AI is on the horizon: [Science Daily](http://ScienceDaily.com).

WE WANT YOUR FEEDBACK!

retroalimentación (Asturian for feedback)

To ensure a great newsletter, let us know what you think! Your ideas and stories can make this newsletter a truly engaging experience. Send your suggestions to yzhang@pepmgroup.com. Your feedback is greatly appreciated and valued!

GET PROPOSAL Have questions about MEP, CSA, industrial refrigeration, process design, architectural, or project management? Contact PEPM Group at yzhang@pepmgroup.com, admin@pepmgroup.com, (918) 895-6766, or visit www.pepmgroup.com.



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IN THE KNOW...

February, which is the second month in the Julian and Gregorian calendar, is named after the Latin term februum, which means purification.

2017 Discovery of a new mostly underwater continent Zealandia in the South Pacific announced in the research journal "GSA Today"

2001 NEAR Shoemaker spacecraft lands in the "saddle" region of 433 Eros, the first spacecraft to land on an asteroid

1953 Francis Crick and James Watson discover the chemical structure of DNA-molecule (double-helix polymer) using studies of x-ray

1884 First volume of the Oxford English Dictionary is published

1804 The world's first steam locomotive runs for the first time along the tramway of the Penydarren Ironworks in Merthyr Tydfil, Wales

1794 US postal service is created, postage 6-12 cents depending on the distance

1632 Galileo Galilei's book "Dialogue Concerning the Two Chief World Systems" is published comparing the Copernican and Ptolemaic systems and whether the Earth orbits the sun

Original Article: [OnThisDay](http://OnThisDay.com): www.OnThisDay.com