

Nathan James Muschinske, MD, MPH

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PROFESSIONAL SUMMARY

Holds an MD and an MPH with a foundation in chemical engineering and experience spanning clinical research, scientific communication, data analysis, medical education, and process improvement. Proven ability to translate complex scientific concepts for diverse audiences, build stakeholder relationships, and integrate emerging technologies to optimize outcomes. Seeking a Medical Science Liaison role to leverage clinical expertise, scientific acumen, and relationship-building skills in the pharmaceutical or biotechnology industry.

CORE COMPETENCIES

Scientific Communication	Statistical Analysis (R, JMP)	CRM Systems (Pipedrive, Zapier)
KOL Relationship Building	Cross-Functional Collaboration	Process Improvement & Automation
Medical Education & Training	Stakeholder Engagement	Project Management
Clinical Data Interpretation	Therapeutic Area Expertise	Presentation & Public Speaking

EDUCATION

Doctor of Medicine (MD) University of Oklahoma Health Sciences Center, Oklahoma City, OK	May 2017
Master of Public Health (MPH) University of Oklahoma Health Sciences Center, Oklahoma City, OK	May 2017
Bachelor of Science, Chemical Engineering (Honors) Oklahoma State University, Stillwater, OK Wentz Research Scholar (2011–2012) — Competitive undergraduate research award	May 2012

PROFESSIONAL EXPERIENCE

STEM Educator — Math, Science, Biology ASTEC Charter Schools, Oklahoma City, OK - Deliver structured, standards-aligned scientific instruction to classes of up to 28 students across multiple grade levels, translating complex STEM concepts into accessible content for diverse learners. - Integrate AI-driven platforms (MagicSchool.ai, Diffit, ChatGPT, Gemini) to enhance lesson design, assessment generation, and differentiated instruction—demonstrating proficiency with emerging technology tools. - Design, administer, and analyze formative and summative assessments using data-driven approaches to guide instructional strategy and measure student outcomes. - Collaborate with cross-functional teams of educators, administrators, and curriculum developers to improve instructional quality and alignment with educational standards.	Jul 2023 — Present
Office Manager Generation Solar LLC, Oklahoma City, OK - Implemented CRM system integration (Pipedrive) and workflow automation (Zapier), improving operational efficiency and data management for a startup environment. - Led evaluation and transition to updated CRM software, managing vendor assessment, stakeholder communication, and change management. - Managed business development functions including online presence, branding strategy, and SEO optimization.	Aug 2022 — Jul 2023

Mathematics Instructor

Sep 2018 — Jul 2023

Mathnasium North OKC, Oklahoma City, OK

- Provided individualized and small-group instruction across multiple grade levels, adapting teaching strategies in real time to meet diverse learning needs.
- Balanced simultaneous instruction of multiple students, maintaining accuracy and engagement—demonstrating strong multitasking and communication skills.

Academic Tutor

Nov 2017 — Jul 2022

Varsity Tutors LLC, Oklahoma City, OK

- Delivered one-on-one tutoring in mathematics, biostatistics, and chemistry to students from high school through graduate school, tailoring explanations to individual learning preferences.

Anesthesia Extern

Jul 2014 — Jul 2015

Dept. of Anesthesiology, OU Medicine, Oklahoma City, OK

- Supported clinical operations including equipment management and patient care workflow support across multiple operating rooms in a high-volume academic medical center.
- Assisted anesthesiology residents with operational tasks related to patient care and pain management protocols.

RESEARCH & PUBLICATIONS

- **Co-Author:** Kupgan G, Hentges DC, **Muschinske NJ**, Picking WD, Picking WL, Ramsey JD. *The effect of fiber truncations on the stability of adenovirus type 5*. Molecular Biotechnology. 56(11):979-91. 2014.
- **Poster Presentation:** Stabilizing a Fiberless Adenovirus Gene Vector. Poster presented at Wentz Research Symposium; April 2012; Stillwater, OK.

CERTIFICATIONS & LICENSURE

- Certified in Public Health (CPH), National Board of Certified Public Health Examiners, 2016 — Present
- Advanced Cardiovascular Life Support (ACLS) Provider, American Heart Association, 2014 — Present
- Basic Life Support (BLS) Provider, American Heart Association, 2014 — Present

PROFESSIONAL ACTIVITIES

- Volunteer, Oklahoma Medical Reserve Corps, 2020 — Present
- COVID Vaccination Clinic Volunteer (2020); Completed FEMA IS-100 and IS-700 certifications
- Eagle Scout, Boy Scouts of America, 2007