

North Central STEM Region

May 2024

STEM Teacher Externships: Spots Available in NC Iowa!

Externship Program Manager, Ann Gritzner, has many of the Summer 2024 positions filled, but there are a few great spots left! While the location is within the NC Region, any Iowa educator in any of the six regions is invited to apply and drive to the host city.

Below, you'll see the host, city, and type of teacher that might best fit.

Host	City	Dicipline	Description
City of Ames - Electric Services	Ames	Business, Computer Science, Earth Science, Engineering, Environmental Science, Industrial Technology, Mathematics, Physics	We have a large variety of special projects that could be completed, depending on the skillset (and interests) of the teacher. These include: <ul style="list-style-type: none">• Managing energy rebate databases and tracking program savings.• Creating outreach materials.

			<ul style="list-style-type: none"> • Compiling energy usage data for cost of service and integrated resource plan studies. • Field verification of our load control system, • Rebate processing, • Customer outreach events.
Iowa DNR Prairie Resource Unit	Lehigh	Earth Science, Environmental Science, Life Science	<ul style="list-style-type: none"> • Propagation of native wildflower seed • Prairie management • Seed cleaning
John Deere Paton	Paton	Business	<p>Develop Return-to-Work Operator Training</p> <ul style="list-style-type: none"> • Develop training schedule • Coordinate with factory guests • Coordinate with Ops Mgr to align with production start up • Collaborate with all functional areas to create content • Facilitate training days <p>The teacher will also receive training and familiarization of the Business Operating System (BOS) and the corresponding Core Process</p>

			BOPs these efforts support.
POET	Gowrie	Chemistry, Engineering, Environmental Science, Industrial Technology, Life Science	<p>Projects can be tailored to the individual.</p> <p>Project areas would include one or all of the following:</p> <ul style="list-style-type: none"> • Working with our engineering and plant operation teams. • Working with our maintenance and reliability teams • Working with our laboratory and quality teams.

If you're interested in a position, but not sure you're the perfect content fit, please reach out to Gritzner (gritzner@iowastem.org) to see if your skills and/or curriculum trajectory match.

Business Horizons 2024

HIGH SCHOOL STUDENTS FROM ACROSS IOWA TEAM UP FOR FIVE DAYS OF INNOVATION & EXPLORATION



BUSINESS HORIZONS



Gain valuable real-world, resume-worthy experience



Build leadership & future-ready skills for any career field



Grow a network of new friends & mentors from across Iowa



Live like a college student & earn college credit!

July 14-18, 2024 · Drake University · Des Moines

**REAL-WORLD EXPERIENCE
LIFE-CHANGING RESULTS**

www.BusinessHorizonsIowa.com



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- **WHEN & WHERE:** July 14-18 at Drake University (Des Moines).
- **WHO:** Iowa high school students (grades 9-12 during the 2023-24 school year).
- **WHAT:** A 5-day innovation simulation for students to gain a better understanding how their strengths and skills connect to the business world and the real world. The action-packed week is filled with competitions, workshops, keynote speakers, 'after hours' activities and more! Participants leave equipped with a renewed sense of confidence in their future plans.
- **COST:** Cost includes all meals, lodging, and materials. Need-based financial assistance is available and can be requested through the online application form. Apply on/before May 27: \$350 (\$50 discount) Apply after May 27: \$400
- **REGISTER:** Students can complete an online application found at www.BusinessHorizonsIowa.com. Applications will be accepted through July 5 or until the program is filled.
- **SLOGAN:** "Real-World Experience. Life-Changing Results." or "The Best Week of Summer!"
- **QUESTIONS:** Contact info@businesshorizonsiowa.com or 515.280.8000.

Five Days of Innovation Awaits Iowa High School Students at Business Horizons

2024! Iowa students (grades 9-12) are encouraged and invited to make the most of their summer at Business Horizons, July 14-18 at Drake University in Des Moines!

Attendees will team up alongside Iowa professionals to create a real-world business venture over just five action-packed days. Teams work toward exciting competitions, hear from dynamic speakers, take part in valuable workshops, attend business visits and so much more. Fun “after hours” activities add to the opportunities to meet great new friends from across the state!

Participants develop self-confidence, hone essential skills, uncover their potential, and gain college and career experience, regardless of their career interests. Learn more, nominate students, and find the online application at www.BusinessHorizonsIowa.com.

(Don't wait, applications submitted on/before May 27 receive a \$50 discount!)

Computer Science Professional Learning Opportunities!



NewBoCo K-12 Education is looking forward to another exciting summer of computer science professional learning.

We have opportunities for K-12 educators to participate in a variety of trainings including Tiny Techies (preK-2nd grade), Cybersecurity (6-12 grade), and Code.org Trainings (K-12 grades).

Training will be offered during our professional development week which will be hosted at the Landus Headquarters in Des Moines, IA during the week of June 24th–

28th, 2024. Scholarships are available for qualified educators.

More information can be found in the [registration form](#).

STEM Challenge Cards

PLAY DOUGH ANIMAL CHALLENGE

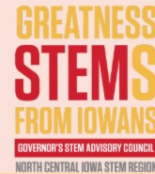
Materials to Gather: Hair conditioner (1/2 cup), Corn Starch(1 cup), Sparkles or food coloring.

Directions:

Place cornstarch in a large bowl. Mix in the hair conditioner with your hands until it becomes smooth and pliable. Add a drop or two of the food coloring, or colored sparkles for variation. Add additional hair conditioner when needed to remain soft.

Animal Challenge: Shape your play dough into various animals. How many can you make? Take a picture or video, and post to the NC STEM Region Facebook page!

***Note - This recipe is not edible! don't eat the play dough!**



In addition to our checkout library, we have STEM Challenge Cards available by request. Each card has an easy to prepare STEM challenge for when you're looking for an activity to either supplement content or for students to do during transitional times in the classroom. In addition to the cards, some materials can be requested as well, though many are found easily at home.

To look at the challenge options and request any, click here:
[STEM Challenge Card Checkout Check-Out Form](#)

STEM Checkout Library



Grades PreK-2
STEM Concept: Engineering Design



Storytime STEM-Packs and several former STEM Scale-Up kits are now available for checkout. These packs are a great hands on, creative way for students to learn more about various STEM concepts.

Learn more about available kits here:
Stem Pack Checkout Information

Request a kit here: **Check-Out Form**

Note: We will be closing the checkout library from June 1-June 30 for restocking and inventory. Please contact us if you are needing kits returned. If you are needing a kit during that time, please reach out to make those arrangements. Thank you!

Upcoming Events!

- May 10 - NC STEM Advisory Board Meeting
- June 7 - NC STEM Advisory Board Meeting
- August 18 - STEM Day at the ISF

*Know of other STEM events in North Central Iowa? Email us at:
ncstem@iastate.edu*

Connect with us!

NC Regional Manager:
Mauree Haage

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