# **GEOGIRLS SCIENCE MENTORS**

# **ROLES & SELECTION PROCESS**

#### **FRAMEWORK**

Overall GeoGirls planning is managed collaboratively by a small team of Mount St. Helens Institute and USGS-Cascades Volcano Observatory staff. This year, volunteers (now called GeoGirls Science Mentors) now have the opportunity to take a greater role in organizing the program through Champion roles. Depending on the team of Champions selected, additional GeoGirls Science Mentors may be invited to volunteer with GeoGirls depending on program needs.

GeoGirls Science Mentors (previously called Volunteers) are at the heart and operations of GeoGirls. During GeoGirls, GeoGirls Science Mentors lead activities, provide operational support, and connect with GeoGirls professionally and personally. In 2019, GeoGirls planning, implementation, and follow-up will follow a volunteer-driven model, with much of the planning, communication, and follow-up coordinated by "Champions" in collaboration with MSHI & USGS-CVO. Champion roles include 1) Operations Champion 2) Media Champion 3) Evening Programs Champion 4) Activity Supplies Champion 5) Curriculum Champion(s) and 6) Sense of Place Champion. As in previous years, up to 10 selected GeoGirls Science Mentors will also serve as Research Project Leaders. Previous Teacher Mentors are eligible to be a Curriculum/Facilitation Champion.

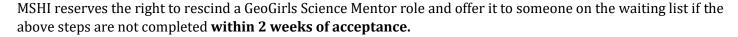
### **HOW IT WORKS**

All those wishing to become a GeoGirls Science Mentor will complete an application. Teacher Mentor and other MSHI volunteers are evaluated separately.

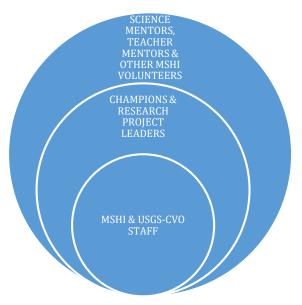
GeoGirls Science Mentors may also be Research Project Leaders and/or a Champion (see chart to right). Applications for Research Project Leader and other Champion roles require a statement of interest and intent.

Research Project Leader and Champion roles will be determined before any other Science Mentor positions are offered. After selection, in order to officially be a GeoGirls Science Mentor, selected applicants must complete the following:

- 1. Complete MSHI Volunteer forms
- 2. Pass a background check
- 3. Commit to responsibilities before, during and/or after GeoGirls. Research Project Leaders and Champions will have the chance to sign up for GeoGirls volunteer shifts (which include tasks such as loading/unloading vehicles, assisting with kitchen cleanup, and other tasks, including some which may be added by Champions themselves). When all shifts are filled, no more GeoGirls Science Mentors will be accepted.



ALL GeoGirls Champions and Research Project leaders will report on progress and next steps at Staff and Mentor Coordination Meeting: **Tuesday, June 25, 2019** in person (Cascades Volcano Observatory, Vancouver, WA), by phone, or video call.



## **OPERATIONS CHAMPION (MSHI STAFF)**

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Identify and manage overall logistical and operational needs:, including scheduling, managing participant information, non-activityspecific supplies (incl. but not limited to, van kits, safety gear, food, etc.), manage overall Teacher and Science Mentor roles and tasks, facility operations, etc.

> Oversee GeoGirls risk with activity leaders

Lead morning Mentor meetings, reviewing plan, the day

Coordinate overall GeoGirls

**Implement Day 3** communication plan

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Operations Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

Compile other Champion action plan for next year

## RESEARCH PROJECT LEADERS\*

Plan a 4-5 hour Research Project for a team of 5 middle school GeoGirls, 1 High School Mentor, and 1 Teacher Mentor, including lesson plan

Collaborate with Champion (and Teacher Mentor) to develop goals, outcomes, connections to Next Generation Science Standards and plan for how to facilitate activity

Facilitiate Research Project

Submit Research Activity modifications based on this year's experience no later than 1 month after GeoGirls

## MEDIA CHAMPION\*

Define blog structure & set up blog (Wordpress)

Set up user-friendly blog template for during GeoGirls that streamlines with Day 5 parent presentation

Develop a plan to create a multimedia presentation post-GeoGirls for use in marketing, social media, and reporting

Manage blog time during program, providing guidance and support

Manage GeoGirls parent presentations, including guiding participants through creating their presentation on Day 5, compilation of parent presentations, and setting up parent presentations at Cascades Volcano Observatory

Upload blog entries and share with GeoGirls

Create multimedia presentation

Submit reflections on the following no later than 1 the Media Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

#### **EVENING PROGRAMS CHAMPION\***

**SEFORE** 

Coordinate Days 1 and 2 campfire programs and

Coordinate evening structured freetime

Coordinate Day 4 evening activities at the Science and Learning Center, including the guest speaker, career panel, dance party, and alternative quiet (ex. craft) activity

DURING

Coordinate preparation for and implementation of evening programs

AFTER

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Evening Programs Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

## **ACTIVITY SUPPLIES CHAMPION\***

**3EFORE** 

Coordinate with activity leaders (Research Project leaders, Pumice Plain activity leaders, Evening Programs Champion) to identify supply needs for activities

Work with others to source supplies (borrow or purchase upon approval by MSHI)

Develop and communicate a plan for managing activity supply logistics during GeoGirls (who has what, who needs what, transportation and organization) DURING

Oversee activity supply organization and logistics

AFTER

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Activity Supplies Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

# **CURRICULUM CHAMPION(s)\***

BEFORE

Develop template for activity lesson plans, including:

- Setting educational goals and objectives
- NGSS Connections
- •5E Model or other engaging framework

Support and coach Research Project leaders as they plan their activity, including coaching for facilitating meaningful science discussions

Develop and share resources for van ride activities

DURING

IF PRESENT: Support, observe and assess activities

AFTER

Submit a summary report based on observations and assessments during GeoGirls

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Curriculum/Facilitation Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

## SENSE OF PLACE CHAMPION\*

Develop a plan for frequent or less) during GeoGirls to help GeoGirls develop a sense of place. Possible examples: short daily mapping activity with simple observations to focus attention. Possible use of GPS.

Lead or delegate leading of "sense of place" activities during GeoGirls

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Sense of Place Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

## **PUMICE PLAIN CHAMPION**

Work with other GeoGirls Mentors to plan large group activities (such as previous vears' seismometer activity and the Willow Creek activity)

Work with other GeoGirls Mentors to plan smallergroup "workshop" activities for the group hiking to Loowit Falls and for the group remaining in the Willow Creek vicinity

Identify and/or train subject matter experts for planned and/or unplanned short stops along routes

Oversee implementation of Pumice Plain activities

Work with Operations Champion to ensure risk management is properly implemented and to decide if and how to modify polans based on participant needs

Submit a written description of all Pumice Plain activities

Submit reflections on the following no later than 1 month after GeoGirls 1) suggested modifications to the Pumice Plain Champion position description based on their experience and 2) a record what worked well in in current year and actionable steps for how they think the process can be improved for next year

- \*must be present for all 5 days of GeoGirls
- \*more than one may be selected