

Journal of STEM Education: Innovations and Research

Volume 22 • Issue 4 • October-December 2021

| | |
|---|-----------|
| Editorial Review Board | 2 |
| International Editorial Advisory Board | 3 |
| Editorial | 4 |
| Thanks to Contributors | 5 |
| Features | |
| Addressing Projected Healthcare and STEM Profession Needs Through a Regional Summer Pipeline Program | 6 |
| Kyeorda Kemp, Stephanie M. Swanberg, Suzan Kamel-ElSayed, James Grogan Tiffany Williams Caryn Reed-Hendon | |
| Increasing Retention of STEM Students with Financial Need via the NSF S-STEM DESIRE Scholarship Program | 24 |
| Bernadette Wright, Sunghee Lee, Katherine Zaratidis, Oksana Huk | |
| Attracting and retaining Latina women in an undergraduate biology program: Benefits of NSF S-STEM Support | 39 |
| Carol Johnston, Julia Tang, Afsane Arvand, Paul Lee | |
| Enhancing Adult Learners' Sense of Community in Engineering Degrees: Preliminary Results | 47 |
| Kim E. Bullington Cynthia L. Tomovic Vukica Jovanović Anthony W. Dean Arianna White-Levatich Rafael Landaeta | |
| Impacts of a Research Experiences for Teachers Program on Rural STEM Educators | 58 |
| Dr. Bradley Bowen Dr. Teresa Shume Dr. Alan Kallmeyer Jewel Altimus | |
| Interstate Drone League (iDrone National) to promote hands-on remote STEM learning using cloud-based virtual meeting platforms in the global pandemic (COVID-19) | 65 |
| Jae Ryu, Riveraine Walters and Hannah Ziegler | |
| Stem Obstacles In The Collegiate Setting | 72 |
| Morgan Smith and LeAnna N. Willison | |
| Instructions for Authors | 79 |
| Contribution Form | 80 |



@JournalofSTEMEd



Journal of STEM Education

The Journal of STEM Education: Innovations and Research (ISSN 1557-5284) is published by The Institute for STEM Education and Research, 2240 Mt. Vernon Ln, Auburn, AL 36830. www.jstem.org
The Institute for STEM Education and Research is a non-profit entity. Periodicals postage rate paid at Auburn, AL and additional mailing offices.

CONTRIBUTIONS are greatly appreciated and are tax-exempt.

PERMISSION FOR USE: The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works or for resale. Specific written permission must be obtained from the publisher for such copying.

Copyright © 2012 by The Institute for STEM Education and Research. It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reports, photographic reproductions, microfilm or any other reproduction of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, photocopying, recording or otherwise, without permission in writing from the copyright holder.