

Abstract Submitted  
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**Design patterns for training fluid dynamics experimentalists** RANDALL TAGG, University of Colorado Denver - Physics — What practical knowledge would your ideal lab student, technician or even postdoc possess? Borrowing the idea of design patterns from the fields of architecture and computer science, we claim that there are technical problems common to many investigations with often-used design solutions. These would form a useful repertoire that thoughtful practitioners can adapt. Creatively breaking the rules is also encouraged. We invite other ideas for fluid experiment design patterns towards the end of creating a web-based resource that helps new experimentalists get up to speed quickly. We are creating such a resource so that it also serves pre-college students invited into research experiences and inventive citizen scientists exploring new technologies.

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