

SYMPAB - (15886) - PRE-SERVICE SCIENCE TEACHER EDUCATION AROUND THE GLOBE: TRENDS, CHALLENGES, AND FUTURE DIRECTIONS

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Short Abstract

This chapter describes and analyses four of the most relevant aspects of initial science teacher training around the world: routes and training system, curriculum or knowledge included in the programs, characteristics of practicum, and relevance given to educational research. According to the analysis of more than 25 countries, it can be concluded that in Europe programs move towards higher qualifications for teachers at a master's degree level, meanwhile in Asian and America countries, short (bachelor), more pragmatic, and pedagogy-based programmes are the most common. In most of the reviewed countries there still exist room for increase the cover and emphasis on learning experience for develop pedagogical content knowledge such as science methods courses and practicum experiences.